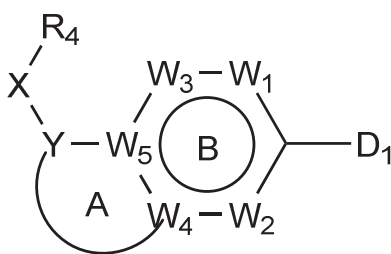
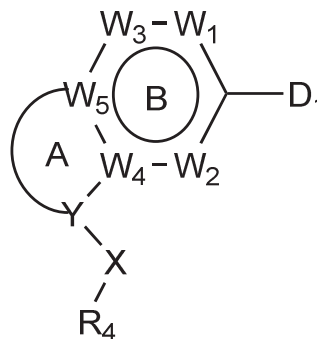


one example described herein discloses compounds, compositions, and methods for treating cardiovascular, inflammatory, and autoimmune conditions associated with MCP-1 and CCR2. In one aspect, the present disclosure refers to subject matter as defined in the attached set of claims.

**[027]** Accordingly, the disclosure describes compounds that are useful for inhibition of BET protein function by binding to bromodomains, pharmaceutical compositions comprising one or more of those compounds, and use of these compounds or compositions in the treatment and prevention of diseases and conditions, including, but not limited to, cancer, autoimmune, and cardiovascular diseases. The compounds of the disclosure are defined by Formula Ia or Formula IIa:



Formula Ia

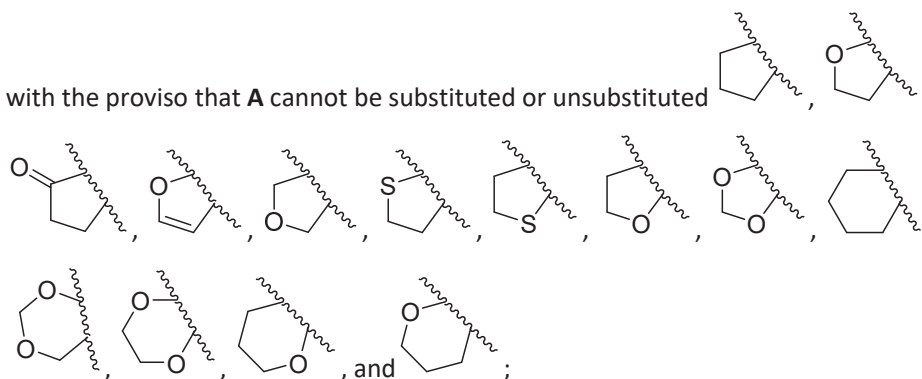


Formula IIa

or are stereoisomers, tautomers, pharmaceutically acceptable salts, or hydrates thereof, wherein:

**A** is selected from 5- or 6-membered monocyclic heterocycles fused to ring **B**;

with the proviso that **A** cannot be substituted or unsubstituted



**B** is a six-membered aromatic carbocycle or heterocycle;

**Y** is selected from N, C, and CH;

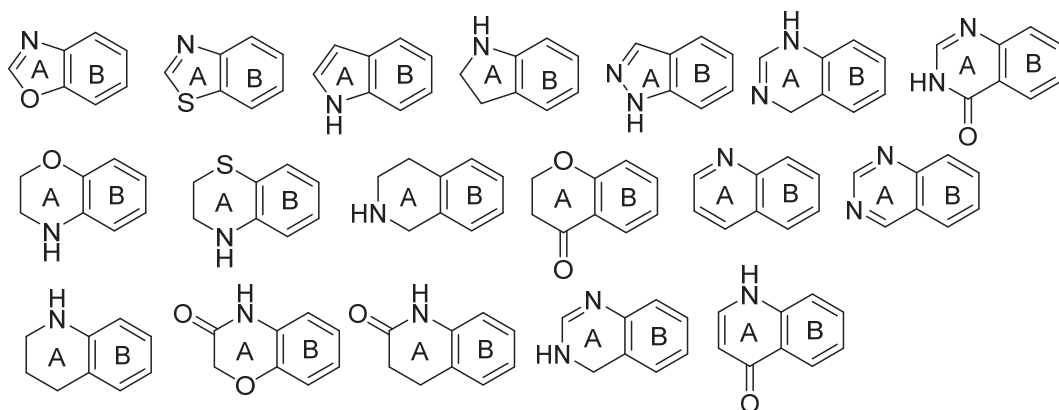
**W<sub>1</sub>** is selected from N and CR<sub>1</sub>;

**W<sub>2</sub>** is selected from N and CR<sub>2</sub>;

**W<sub>3</sub>** is selected from N and CR<sub>3</sub>;

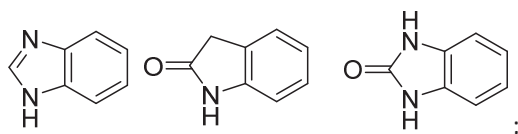
**W<sub>4</sub>** and **W<sub>5</sub>** are independently selected from N, CH, and C or alternatively, **W<sub>4</sub>** and **W<sub>5</sub>** are both C (see, e.g., Formula Ib and Formula IIb below);

**W<sub>1</sub>**, **W<sub>2</sub>**, and **W<sub>3</sub>** may be the same or different from each other;

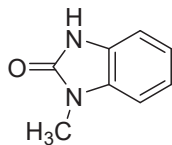


unless the **B** ring is substituted;

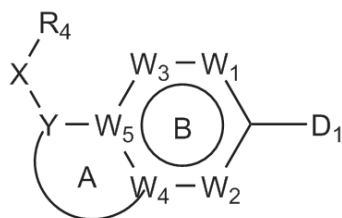
and with the proviso that if each of **R**<sub>1</sub>, **R**<sub>2</sub>, **R**<sub>3</sub> are hydrogen, then the **A-B** bicyclic ring is not



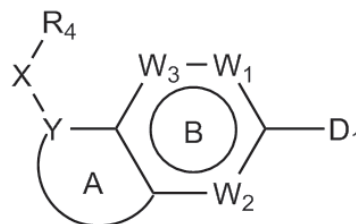
and with the proviso that if each of **R**<sub>1</sub>, **R**<sub>2</sub>, **R**<sub>3</sub> are hydrogen, then the **A-B** bicyclic ring is not



**[028]** In certain examples, **A** is a five membered ring. In some examples **Y** is N or C. In some embodiments, **R**<sub>1</sub> and **R**<sub>2</sub> are independently selected from hydrogen, deuterium, alkyl, -OH, -NH<sub>2</sub>, -thioalkyl, alkoxy, ketone, ester, carboxylic acid, urea, carbamate, amino, amide, halogen, sulfone, sulfoxide, sulfide, sulfonamide, and -CN. In some examples, the compound of Formula Ia is a compound of Formula Ib, i.e., wherein **W**<sub>4</sub> and **W**<sub>5</sub> of Formula I are both C.

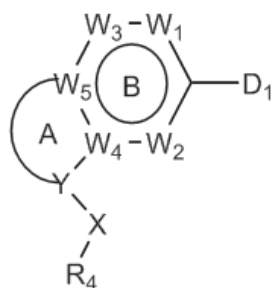


Formula Ia

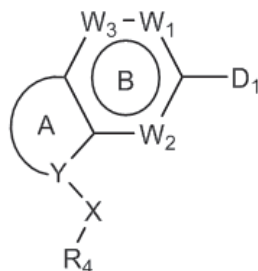


Formula Ib

In some examples, the compound of Formula Ia is a compound of Formula Ib, i.e., wherein **W**<sub>4</sub> and **W**<sub>5</sub> of Formula I are both C.



Formula IIa



Formula IIb

**[029]** In another examples, a pharmaceutical composition comprising a compound of Formula Ia, Formula Ib, Formula IIa, and/or Formula IIb, or stereoisomer, tautomer, pharmaceutically acceptable salt, or hydrate thereof and one or more pharmaceutically acceptable carriers, diluents or excipients is provided.

**[030]** In yet another examples there is described a compound of Formula Ia, Formula Ib, Formula IIa, and/or Formula IIb, or a stereoisomer, tautomer, pharmaceutically acceptable salt, or hydrate thereof, or a pharmaceutical composition comprising such compound, for use in therapy, in particular in the treatment of diseases or conditions for which a bromodomain inhibitor is indicated.

**[031]** In yet another examples there is disclosed a compound of Formula Ia, Formula Ib, Formula IIa, and/or Formula IIb, or a stereoisomer, tautomer, pharmaceutically acceptable salt, or hydrate thereof in the manufacture of a medicament for the treatment of diseases or conditions for which a bromodomain inhibitor is indicated.

## DEFINITIONS

**[032]** As used in the present specification, the following words, phrases and symbols are generally intended to have the meanings as set forth below, except to the extent that the context in which they are used indicates otherwise. The following abbreviations and terms have the indicated meanings throughout.

**[033]** As used herein, "cardiovascular disease" refers to diseases, disorders and conditions of the heart and circulatory system that are mediated by BET inhibition. Exemplary cardiovascular diseases, including cholesterol- or lipid-related disorders, include, but are not limited to, acute coronary syndrome, angina, arteriosclerosis, atherosclerosis, carotid atherosclerosis, cerebrovascular disease, cerebral infarction, congestive heart failure, congenital heart disease, coronary heart disease, coronary artery disease, coronary plaque stabilization, dyslipidemias, dyslipoproteinemias, endothelium dysfunctions, familial hypercholesterolemia, familial combined

**What is claimed is:**

1. Use of a therapeutically effective amount of a compound selected from:

3-benzyl-5-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
1-benzyl-5-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
4-(3-benzyl-3H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
4-(1-benzyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
3-benzyl-5-(3,5-dimethylisoxazol-4-yl)benzo[d]oxazol-2(3H)-one;  
1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-benzo[d]imidazol-4-amine;  
1-benzyl-5-(3,5-dimethylisoxazol-4-yl)-1H-benzo[d]imidazol-7-amine;  
N,1-dibenzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-benzo[d]imidazol-4-amine;  
1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
1-benzyl-7-(3,5-dimethylisoxazol-4-yl)-3,4-dihydroquinazolin-2(1H)-one;  
4-(1-benzyl-2-methyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
4-(1-(cyclopropylmethyl)-2-methyl-4-nitro-1H-benzo[d]imidazol-6-yl)-3,5-dimethylisoxazole;  
1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-4-nitro-1H-benzo[d]imidazol-2(3H)-one;  
4-amino-1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-benzo[d]imidazol-2(3H)-one;  
1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-ethoxy-1H-benzo[d]imidazol-4-amine;  
1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-ethyl-4-nitro-1H-benzo[d]imidazol-2-amine;  
1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N<sup>2</sup>-ethyl-1H-benzo[d]imidazole-2,4-diamine;  
1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-oxo-2,3-dihydro-1H-benzo[d]imidazole-4-carboxamide;  
4-(aminomethyl)-1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-benzo[d]imidazol-2(3H)-one;  
4-(3-benzyl-3H-imidazo[4,5-b]pyridin-5-yl)-3,5-dimethylisoxazole;  
6-(3,5-dimethylisoxazol-4-yl)-1-(4-fluorobenzyl)-1H-benzo[d]imidazol-4-amine;  
6-(3,5-dimethylisoxazol-4-yl)-1-(4-fluorobenzyl)-N-methyl-1H-benzo[d]imidazol-4-amine;  
6-(3,5-dimethylisoxazol-4-yl)-1-(4-fluorobenzyl)-N,N-dimethyl-1H-benzo[d]imidazol-4-amine;  
3,5-dimethyl-4-(1-(1-phenylethyl)-1H-imidazo[4,5-b]pyridin-6-yl)isoxazole;  
1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-c]pyridin-4-amine;

4-(1-benzyl-3-bromo-1H-pyrrolo[3,2-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-pyrrolo[3,2-b]pyridine-3-carbaldehyde;  
 1-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-pyrrolo[3,2-b]pyridin-3-yl)ethanone;  
 4-(1-benzyl-3-nitro-1H-pyrrolo[3,2-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(3-(4-chlorobenzyl)-3H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(3-(4-fluorobenzyl)-3H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(1-(4-fluorobenzyl)-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 3,5-dimethyl-4-(3-(pyridin-2-ylmethyl)-3H-imidazo[4,5-b]pyridin-6-yl)isoxazole;  
 4-(1-(4-fluorobenzyl)-1H-pyrrolo[3,2-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(1-(4-fluorobenzyl)-1H-pyrrolo[2,3-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(5-(4-fluorobenzyl)-5H-pyrrolo[2,3-b]pyrazin-3-yl)-3,5-dimethylisoxazole;  
 4-(1-(4-fluorobenzyl)-1H-pyrazolo[4,3-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 6-(3,5-dimethylisoxazol-4-yl)-1-(4-fluorobenzyl)-1H-pyrrolo[2,3-b]pyridin-4-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-indazol-4-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-benzo[d]imidazol-4-amine;  
 3-((5-(3,5-dimethylisoxazol-4-yl)-1H-pyrrolo[3,2-b]pyridin-3-yl)amino)benzonitrile;  
 4-(1-(4-fluorobenzyl)-2-methyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(1-(2,4-dichlorobenzyl)-2-methyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(1-(4-methoxybenzyl)-2-methyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(1-(cyclopropylmethyl)-2-methyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 N-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-benzo[d]imidazol-4-yl)acetamide;  
 N-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-benzo[d]imidazol-4-yl)ethanesulfonamide;  
 4-(1-benzyl-4-methoxy-2-methyl-1H-benzo[d]imidazol-6-yl)-3,5-dimethylisoxazole;  
 7-amino-3-benzyl-5-(3,5-dimethylisoxazol-4-yl)benzo[d]oxazol-2(3H)-one;  
 3,5-dimethyl-4-(2-methyl-1-(pyridin-3-ylmethyl)-1H-imidazo[4,5-b]pyridin-6-yl)isoxazole;  
 3,5-dimethyl-4-(2-methyl-1-(thiophen-2-ylmethyl)-1H-imidazo[4,5-b]pyridin-6-yl)isoxazole;  
 4-(1-benzyl-1H-pyrrolo[3,2-b]pyridin-6-yl)-3,5-dimethylisoxazole;

1-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-pyrrolo[3,2-b]pyridin-3-yl)-N,N-dimethylmethanamine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-pyrrolo[2,3-b]pyridin-4-amine;  
 3,5-dimethyl-4-(2-methyl-1-(pyridin-4-ylmethyl)-1H-imidazo[4,5-b]pyridin-6-yl)isoxazole;  
 1-(cyclopropylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-benzo[d]imidazol-4-amine;  
 3,5-dimethyl-4-(2-methyl-1-((5-methylthiophen-2-yl)methyl)-1H-imidazo[4,5-b]pyridin-6-yl)isoxazole;  
 4-(1-((5-chlorothiophen-2-yl)methyl)-2-methyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 5-((6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-imidazo[4,5-b]pyridin-1-yl)methyl)thiophene-2-carbonitrile;  
 1-benzyl-6-(1,4-dimethyl-1H-pyrazol-5-yl)-2-methyl-1H-benzo[d]imidazol-4-amine;  
 4-(1-(4-chlorobenzyl)-2-methyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-((6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-imidazo[4,5-b]pyridin-1-yl)methyl)phenol;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-benzo[d]imidazole-4-carbonitrile;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-oxo-2,3-dihydro-1H-benzo[d]imidazole-4-carbonitrile;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-morpholino-1H-benzo[d]imidazol-4-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-pyrrolo[3,2-b]pyridine-3-carbonitrile;  
 4-(1-benzyl-3-chloro-1H-pyrrolo[3,2-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-amino-1-(4-chlorobenzyl)-6-(3,5-dimethylisoxazol-4-yl)-1H-benzo[d]imidazol-2(3H)-one;  
 1-(4-chlorobenzyl)-6-(3,5-dimethylisoxazol-4-yl)-4-nitro-1H-benzo[d]imidazol-2(3H)-one;  
 4-(1-benzyl-1H-pyrazolo[4,3-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(1-(4-chlorobenzyl)-1H-pyrazolo[4,3-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 1-benzyl-2-methyl-6-(1-methyl-1H-pyrazol-5-yl)-1H-benzo[d]imidazol-4-amine;  
 4-(1-(3,4-dichlorobenzyl)-2-methyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1-(1-phenylethyl)-1H-benzo[d]imidazol-4-amine;  
 2-(azetidin-1-yl)-1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-benzo[d]imidazol-4-amine;  
 3,5-dimethyl-4-(1-(thiophen-3-ylmethyl)-1H-pyrazolo[4,3-b]pyridin-6-yl)isoxazole;  
 N-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-pyrrolo[3,2-b]pyridin-3-yl)acetamide;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-pyrrolo[3,2-b]pyridin-3-amine;

1-(3,4-dichlorobenzyl)-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 1-(4-chlorobenzyl)-6-(3,5-dimethylisoxazol-4-yl)-1H-indazol-4-amine;  
 6-(3,5-dimethylisoxazol-4-yl)-1-(4-methoxybenzyl)-4-nitro-1H-benzo[d]imidazol-2(3H)-one;  
 4-amino-6-(3,5-dimethylisoxazol-4-yl)-1-(4-methoxybenzyl)-1H-benzo[d]imidazol-2(3H)-one;  
 1-(4-chlorobenzyl)-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 6-(3,5-dimethylisoxazol-4-yl)-1-(thiophen-2-ylmethyl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-ethyl-1H-imidazo[4,5-b]pyridin-2-amine;  
 3,5-dimethyl-4-(2-methyl-1-(1-phenylethyl)-1H-imidazo[4,5-b]pyridin-6-yl)isoxazole;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N2-(tetrahydro-2H-pyran-4-yl)-1H-benzo[d]imidazole-2,4-diamine;  
 6-(3,5-dimethylisoxazol-4-yl)-4-nitro-1-(1-phenylethyl)-1H-benzo[d]imidazol-2(3H)-one;  
 N-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-oxo-2,3-dihydro-1H-benzo[d]imidazol-4-yl)acetamide;  
 6-(3,5-dimethylisoxazol-4-yl)-1-(1-phenylethyl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 6-(3,5-dimethylisoxazol-4-yl)-N-ethyl-1-(1-phenylethyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 4-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-yl)morpholine;  
 4-amino-6-(3,5-dimethylisoxazol-4-yl)-1-(1-phenylethyl)-1H-benzo[d]imidazol-2(3H)-one;  
 4-(1-(cyclobutylmethyl)-2-methyl-4-nitro-1H-benzo[d]imidazol-6-yl)-3,5-dimethylisoxazole;  
 4-(1-(cyclopentylmethyl)-2-methyl-4-nitro-1H-benzo[d]imidazol-6-yl)-3,5-dimethylisoxazole;  
 1-(cyclopropylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 N-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-(ethylamino)-1H-benzo[d]imidazol-4-yl)acetamide;  
 N-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-ethoxy-1H-benzo[d]imidazol-4-yl)acetamide;  
 4-(1-benzyl-4-bromo-2-methyl-1H-benzo[d]imidazol-6-yl)-3,5-dimethylisoxazole;  
 3-benzyl-5-(3,5-dimethylisoxazol-4-yl)-1-ethyl-1H-benzo[d]imidazol-2(3H)-one;  
 4-(2-(azetidin-1-yl)-1-benzyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 1-((5-chlorothiophen-2-yl)methyl)-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 (S)-3,5-dimethyl-4-(2-methyl-4-nitro-1-(1-phenylethyl)-1H-benzo[d]imidazol-6-yl)isoxazole;  
 (R)-3,5-dimethyl-4-(2-methyl-4-nitro-1-(1-phenylethyl)-1H-benzo[d]imidazol-6-yl)isoxazole;  
 6-(3,5-dimethylisoxazol-4-yl)-N-ethyl-4-nitro-1-(1-phenylethyl)-1H-benzo[d]imidazol-2-amine;

4-(1-benzyl-2-ethyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-amino-6-(3,5-dimethylisoxazol-4-yl)-1-(4-hydroxybenzyl)-1H-benzo[d]imidazol-2(3H)-one;  
 N-(2-(azetidin-1-yl)-1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-benzo[d]imidazol-4-yl)acetamide;  
 1-(cyclopropylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-N-ethyl-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-(cyclobutylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-benzo[d]imidazol-4-amine;  
 1-(cyclopentylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-benzo[d]imidazol-4-amine;  
 6-(3,5-dimethylisoxazol-4-yl)-N2-ethyl-1-(1-phenylethyl)-1H-benzo[d]imidazole-2,4-diamine;  
 4-(1-benzyl-4-nitro-2-(pyrrolidin-1-yl)-1H-benzo[d]imidazol-6-yl)-3,5-dimethylisoxazole;  
 4-(1-benzyl-2-(4-methylpiperazin-1-yl)-4-nitro-1H-benzo[d]imidazol-6-yl)-3,5-dimethylisoxazole;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(2-methoxyethyl)-4-nitro-1H-benzo[d]imidazol-2-amine;  
 4-(1-benzyl-2-cyclopropyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N2-(2-methoxyethyl)-1H-benzo[d]imidazole-2,4-diamine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-(pyrrolidin-1-yl)-1H-benzo[d]imidazol-4-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-(4-methylpiperazin-1-yl)-1H-benzo[d]imidazol-4-amine;  
 1-benzyl-N6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-benzo[d]imidazole-4,6-diamine;  
 (S)-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1-(1-phenylethyl)-1H-benzo[d]imidazol-4-amine;  
 (R)-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1-(1-phenylethyl)-1H-benzo[d]imidazol-4-amine;  
 1-(cyclopropylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-4-nitro-1H-benzo[d]imidazol-2(3H)-one;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-methyl-1H-imidazo[4,5-b]pyridin-2-amine;  
 N,1-dibenzyl-6-(3,5-dimethylisoxazol-4-yl)-4-nitro-1H-benzo[d]imidazol-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-4-nitro-N-(pyridin-3-ylmethyl)-1H-benzo[d]imidazol-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-methyl-4-nitro-1H-benzo[d]imidazol-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-3-methyl-4-nitro-1H-benzo[d]imidazol-2(3H)-one;  
 N2,1-dibenzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-benzo[d]imidazole-2,4-diamine;  
 N,1-dibenzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 4-benzyl-6-(3,5-dimethylisoxazol-4-yl)-3,4-dihydroquinoxalin-2(1H)-one;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N2-(pyridin-3-ylmethyl)-1H-benzo[d]imidazole-2,4-diamine;

4-(1-benzyl-4-fluoro-2-methyl-1H-benzo[d]imidazol-6-yl)-3,5-dimethylisoxazole;  
 1-(cyclopropylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-N-ethyl-4-nitro-1H-benzo[d]imidazol-2-amine;  
 1-(cyclopropylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-N2-ethyl-1H-benzo[d]imidazole-2,4-diamine;  
 4-amino-1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-3-methyl-1H-benzo[d]imidazol-2(3H)-one;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-4-fluoro-1H-benzo[d]imidazol-2(3H)-one;  
 N-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-3-methyl-2-oxo-2,3-dihydro-1H-benzo[d]imidazol-4-yl)acetamide;  
 4-(1-benzyl-2-(4-methylpiperazin-1-yl)-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-benzyl-6-(1-methyl-1H-pyrazol-5-yl)-3,4-dihydroquinoxalin-2(1H)-one;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(2-methoxyethyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 4-(1-benzyl-2-methyl-4-(methylsulfonyl)-1H-benzo[d]imidazol-6-yl)-3,5-dimethylisoxazole;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(pyridin-4-ylmethyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(tetrahydro-2H-pyran-4-yl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-benzyl-6-(1-methyl-1H-pyrazol-5-yl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 (S)-6-(3,5-dimethylisoxazol-4-yl)-4-nitro-1-(1-phenylethyl)-1H-benzo[d]imidazol-2(3H)-one;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-benzo[d]imidazol-4-ol;  
 (R)-4-benzyl-6-(3,5-dimethylisoxazol-4-yl)-3-methyl-3,4-dihydroquinoxalin-2(1H)-one;  
 4-(1-benzyl-6-(1-methyl-1H-pyrazol-5-yl)-1H-imidazo[4,5-b]pyridin-2-yl)morpholine;  
 1-benzyl-6-(1-methyl-1H-pyrazol-5-yl)-N-(tetrahydro-2H-pyran-4-yl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 4-amino-1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-benzo[d]imidazole-2(3H)-thione;  
 (S)-4-amino-6-(3,5-dimethylisoxazol-4-yl)-1-(1-phenylethyl)-1H-benzo[d]imidazol-2(3H)-one;  
 (R)-4-amino-6-(3,5-dimethylisoxazol-4-yl)-1-(1-phenylethyl)-1H-benzo[d]imidazol-2(3H)-one;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-7-methyl-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 4-(1-benzyl-2,7-dimethyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-benzo[d]imidazol-4-yl)morpholine;  
 1-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-benzo[d]imidazol-4-yl)azetidin-2-one;  
 1-benzyl-2-methyl-6-(1,3,5-trimethyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-4-amine;

1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(pyridin-3-ylmethyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 4-(4-bromo-2-methyl-1-(3-phenylpropyl)-1H-benzo[d]imidazol-6-yl)-3,5-dimethylisoxazole;  
 4-(7-bromo-2-methyl-1-(3-phenylpropyl)-1H-benzo[d]imidazol-5-yl)-3,5-dimethylisoxazole;  
 4-(4-bromo-2-methyl-1-(2-phenoxyethyl)-1H-benzo[d]imidazol-6-yl)-3,5-dimethylisoxazole;  
 4-(7-bromo-2-methyl-1-(2-phenoxyethyl)-1H-benzo[d]imidazol-5-yl)-3,5-dimethylisoxazole;  
 4-(1-(cyclohexylmethyl)-2-methyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(1-(cyclopentylmethyl)-2-methyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(1-(cyclobutylmethyl)-2-methyl-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(pyridin-2-ylmethyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 4-(1-benzyl-2-(pyrrolidin-1-yl)-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 2-((1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-yl)amino)ethanol;  
 1-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-2-methyl-1H-benzo[d]imidazol-4-yl)azetidin-3-ol;  
 1-benzyl-3-methyl-6-(1-methyl-1H-pyrazol-5-yl)-4-nitro-1H-benzo[d]imidazol-2(3H)-one;  
 4-amino-1-benzyl-3-methyl-6-(1-methyl-1H-pyrazol-5-yl)-1H-benzo[d]imidazol-2(3H)-one;  
 1-benzyl-2-methyl-6-(5-methylisoxazol-4-yl)-1H-benzo[d]imidazol-4-amine;  
 1-(cyclopentylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 1-(cyclobutylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 N-(1-benzyl-3-methyl-6-(1-methyl-1H-pyrazol-5-yl)-2-oxo-2,3-dihydro-1H-benzo[d]imidazol-4-yl)acetamide;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(4-methoxybenzyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 4-((1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-yl)amino)cyclohexanol;  
 4-(1-(cyclopentylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-yl)morpholine;  
 4-(2-(azetidin-1-yl)-1-(cyclopentylmethyl)-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 4-(1-(cyclobutylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-yl)morpholine;  
 4-(2-(azetidin-1-yl)-1-(cyclobutylmethyl)-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 N1-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-yl)-N2,N2-dimethylethane-1,2-diamine;  
 4-(1-benzyl-2-(piperazin-1-yl)-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;

1-benzyl-N-cyclopentyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(2-morpholinoethyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 3-(((1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-yl)amino)methyl)benzonitrile;  
 (R)-6-(3,5-dimethylisoxazol-4-yl)-1-(1-phenylethyl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 (S)-6-(3,5-dimethylisoxazol-4-yl)-1-(1-phenylethyl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 4-(1-benzyl-2-(tetrahydro-2H-pyran-4-yl)-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-methyl-1H-imidazo[4,5-b]pyridine-2-carboxamide;  
 1-(cyclopentylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-N-(tetrahydro-2H-pyran-4-yl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-(cyclobutylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-N-(tetrahydro-2H-pyran-4-yl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 N1-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-yl)cyclohexane-1,4-diamine;  
 1-benzyl-N-(cyclohexylmethyl)-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(3-methoxypropyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(oxetan-3-yl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 6-(3,5-dimethylisoxazol-4-yl)-1-(4-fluorobenzyl)-1H-imidazo[4,5-b]pyridin-2(3H)-one;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(pyrazin-2-ylmethyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-((tetrahydro-2H-pyran-4-yl)methyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(2-(4-methylpiperazin-1-yl)ethyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 6-(3,5-dimethylisoxazol-4-yl)-1-(4-fluorobenzyl)-N-methyl-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-(4-chlorobenzyl)-6-(3,5-dimethylisoxazol-4-yl)-N-methyl-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-benzyl-N-cyclohexyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(1-methylpiperidin-4-yl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 4-(1-benzyl-2-(pyridin-3-yloxy)-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 1-(((1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-yl)amino)-2-methylpropan-2-ol;

1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(2-(pyrrolidin-1-yl)ethyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(2-(piperidin-1-yl)ethyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 (R)-6-(3,5-dimethylisoxazol-4-yl)-4-nitro-1-(1-phenylethyl)-1H-benzo[d]imidazol-2(3H)-one;  
 4-(1-benzyl-7-methoxy-2-(trifluoromethyl)-1H-benzo[d]imidazol-6-yl)-3,5-dimethylisoxazole;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(thiazol-2-ylmethyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-benzo[d]imidazole-2-carboximidamide;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-benzo[d]imidazole-2-carboxamide;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-((1-methylpiperidin-4-yl)methyl)-1H-imidazo[4,5-b]pyridin-2-amine;  
 1-(1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-1H-imidazo[4,5-b]pyridin-2-yl)azetidin-3-ol;  
 4-(1-benzyl-2-(pyridin-4-yloxy)-1H-imidazo[4,5-b]pyridin-6-yl)-3,5-dimethylisoxazole;  
 1-benzyl-6-(3,5-dimethylisoxazol-4-yl)-N-(pyridin-3-yl)-1H-benzo[d]imidazol-2-amine;  
 3-(1-benzyl-1H-benzo[d]imidazol-6-yl)-4-ethyl-1H-1,2,4-triazol-5(4H)-one; and

stereoisomers, tautomers, pharmaceutically acceptable salts, or hydrates thereof for the manufacture of a medicament effective in treating a disease or condition associated with BET proteins by inhibiting a BET protein function.

2. The use according to claim 1, wherein the compound is to be administered in a pharmaceutical composition that further comprises a pharmaceutically acceptable carrier.

3. The use according to claim 1 or 2, wherein the disease or disorder is selected from an autoimmune diseases or disorder, an inflammatory diseases or disorder, cancer, a benign proliferative or fibrotic disorder, a cardiovascular diseases or disorder, a metabolic diseases or disorder, HIV, and a neurological diseases or disorder.

4. The use of claim 3, wherein the autoimmune or inflammatory disorder is selected from Acute Disseminated Encephalomyelitis, Agammaglobulinemia, Allergic Disease, Ankylosing spondylitis, Anti-GBM/Anti-TBM nephritis, Anti-phospholipid syndrome, Autoimmune aplastic anemia, Autoimmune hepatitis, Autoimmune inner ear disease, Autoimmune myocarditis, Autoimmune pancreatitis, Autoimmune retinopathy, Autoimmune thrombocytopenic purpura, Behcet's Disease, Bullous pemphigoid, Castleman's Disease, Celiac Disease, Churg-Strauss syndrome, Crohn's Disease, Cogan's syndrome, Dry eye syndrome, Essential mixed cryoglobulinemia, Dermatomyositis, Devic's Disease, Encephalitis, Eosinophilic esophagitis, Eosinophilic fasciitis, Erythema nodosum, Giant cell arteritis, Glomerulonephritis, Goodpasture's syndrome,

Granulomatosis with Polyangiitis (Wegener's), Graves' Disease, Guillain-Barre syndrome, Hashimoto's thyroiditis, Hemolytic anemia, Henoch-Schonlein purpura, idiopathic pulmonary fibrosis, IgA nephropathy, Inclusion body myositis, Type I diabetes, Interstitial cystitis, Kawasaki's Disease, Leukocytoclastic vasculitis, Lichen planus, Systemic lupus erythematosus (SLE), Microscopic polyangitis, Multiple sclerosis, Myasthenia gravis, myositis, Optic neuritis, Pemphigus, POEMS syndrome, Polyarteritis nodosa, Primary biliary cirrhosis, Psoriasis, Psoriatic arthritis, Pyoderma gangrenosum, Relapsing polychondritis, Rheumatoid arthritis, Sarcoidosis, Scleroderma, Sjogren's syndrome, Takayasu's arteritis, Transverse myelitis, Ulcerative colitis, Uveitis, and Vitiligo.

5. The use of claim 3, wherein the inflammatory disease or disorder is selected from sinusitis, pneumonitis, osteomyelitis, gastritis, enteritis, gingivitis, appendicitis, irritable bowel syndrome, tissue graft rejection, chronic obstructive pulmonary disease (COPD), septic shock, osteoarthritis, acute gout, acute lung injury, acute renal failure, burns, Herxheimer reaction, and SIRS associated with viral infections.

6. The use of claim 3, wherein the disease or disorder is cancer.

7. The use of claim 6, wherein the cancer is selected from B-acute lymphocytic leukemia, Burkitt's lymphoma, diffuse large cell lymphoma, multiple myeloma, primary plasma cell leukemia, atypical carcinoid lung cancer, bladder cancer, breast cancer, cervix cancer, colon cancer, gastric cancer, glioblastoma, hepatocellular carcinoma, large cell neuroendocrine carcinoma, medulloblastoma, melanoma, nodular melanoma, neuroblastoma, esophageal squamous cell carcinoma, osteosarcoma, ovarian cancer, prostate cancer, renal clear cell carcinoma, retinoblastoma, rhabdomyosarcoma, small cell lung carcinoma, NUT midline carcinoma, B-cell lymphoma, non-small cell lung cancer, head and neck squamous cell carcinoma, chronic lymphocytic leukemia follicular lymphoma, diffuse large B cell lymphoma with germinal center phenotype, Hodgkin's lymphoma, activated anaplastic large cell lymphoma, primary neuroectodermal tumor, pancreatic cancer, adenoid cystic carcinoma, T-cell prolymphocytic leukemia, malignant glioma, Barret's adenocarcinoma, hepatoma, pro-myelocytic leukemia, and mantle cell lymphoma.

8. The use of claim 6, wherein the cancer:

i. is associated with overexpression, translocation, amplification, or rearrangement of a myc family oncoprotein that is sensitive to BET inhibition; or

ii. is associated with overexpression, translocation, amplification, or rearrangement of BET proteins; or

iii. relies on pTEFb (Cdk9/cyclin T) and BET proteins to regulate oncogenes; or

iv. is associated with upregulation of BET responsive genes CDK6, Bcl2, TYRO3, MYB, and hTERT; or

v. is sensitive to effects of BET inhibition; or

vi. is associated with a virus.

9. The use of claim 6, wherein the cancer is associated with overexpression, translocation, amplification, or rearrangement of a myc family oncoprotein that is sensitive to BET inhibition and selected from B-acute lymphocytic leukemia, Burkitt's lymphoma, Diffuse large cell lymphoma, Multiple myeloma, Primary plasma cell leukemia, Atypical carcinoid lung cancer, Bladder cancer, Breast cancer, Cervix cancer, Colon cancer, Gastric cancer, Glioblastoma, Hepatocellular carcinoma, Large cell neuroendocrine carcinoma, Medulloblastoma, Nodular melanoma, Superficial spreading melanoma, Neuroblastoma, esophageal squamous cell carcinoma, Osteosarcoma, Ovarian cancer, Prostate cancer, Renal clear cell carcinoma, Retinoblastoma, Rhabdomyosarcoma, and Small cell lung carcinoma.

10. The use of claim 8, wherein the cancer is associated with overexpression, translocation, amplification, or rearrangement of BET proteins and selected from NUT-midline carcinoma, B-cell Lymphoma, non-small cell lung cancer, esophageal cancer, head and neck squamous cell carcinoma, and colon cancer.

11. The method or use of claim 8, wherein the cancer relies on pTEFb (Cdk9/cyclin T) and BET proteins to regulate oncogenes and is selected from chronic lymphocytic leukemia, multiple myeloma, follicular lymphoma, diffuse large B cell lymphoma with germinal center phenotype, Burkitt's lymphoma, Hodgkin's lymphoma, follicular lymphomas and activated, anaplastic large cell lymphoma, neuroblastoma, primary neuroectodermal tumor, rhabdomyosarcoma, prostate cancer, and breast cancer.

12. The method or use of claim 8, wherein the cancer is associated with upregulation of BET responsive genes CDK6, Bcl2, TYRO3, MYB, and/or hTERT and is selected from pancreatic cancer, breast cancer, colon cancer, glioblastoma, adenoid cystic carcinoma, T-cell prolymphocytic leukemia, malignant glioma, bladder cancer, medulloblastoma, thyroid cancer, melanoma, multiple myeloma, Barrett's adenocarcinoma, hepatoma, prostate cancer, pro-myelocytic leukemia, chronic lymphocytic leukemia, mantle cell lymphoma, diffuse large B-cell lymphoma, small cell lung cancer, and renal carcinoma.

13. The method or use of claim 8, wherein the cancer is sensitive to effects of BET inhibition and is selected from NUT-midline carcinoma (NMV), acute myeloid leukemia (AML), acute B lymphoblastic leukemia (B-ALL), Burkitt's Lymphoma, B-cell Lymphoma, Melanoma, mixed lineage leukemia, multiple myeloma, pro-myelocytic leukemia (PML), non-Hodgkin's lymphoma, Neuroblastoma, Medulloblastoma, lung carcinoma (NSCLC, SCLC), and colon carcinoma.

14. The use of any one of claims 6-13, wherein the compound is to be administered combined with other therapies, chemotherapeutic agents or antiproliferative agents.

15. The use of claim 14, wherein the chemotherapeutic agent is selected from ABT-737, Azacitidine (Vidaza), AZD1152 (Barasertib), AZD2281 (Olaparib), AZD6244 (Selumetinib), BEZ235, Bleomycin Sulfate, Bortezomib (Velcade), Busulfan (Myleran), Camptothecin, Cisplatin, Cyclophosphamide (Clafen), CYT387, Cytarabine (Ara-C), Dacarbazine, DAPT (GSI-IX), Decitabine, Dexamethasone, Doxorubicin (Adriamycin), Etoposide, Everolimus (RAD001), Flavopiridol (Alvocidib), Ganetespib (STA-9090), Gefitinib (Iressa), Idarubicin, Ifosfamide (Mitoxana), IFNa2a (Roferon A), Melphalan (Alkeran), Methazolastone (temozolomide), Metformin, Mitoxantrone (Novantrone), Paclitaxel, Phenformin, PKC412 (Midostaurin), PLX4032 (Vemurafenib), Pomalidomide (CC-4047), Prednisone (Deltasone), Rapamycin, Revlimid (Lenalidomide), Ruxolitinib (INCB018424), Sorafenib (Nexavar), SU11248 (Sunitinib), SU11274, Vinblastine, Vincristine (Oncovin), Vinorelbine (Navelbine), Vorinostat (SAHA), and WP1130 (Degrasyn).

16. The use of claim 3, wherein the benign proliferative or fibrotic disorder is selected from the group consisting of benign soft tissue tumors, bone tumors, brain and spinal tumors, eyelid and orbital tumors, granuloma, lipoma, meningioma, multiple endocrine neoplasia, nasal polyps, pituitary tumors, prolactinoma, pseudotumor cerebri, seborrheic keratoses, stomach polyps, thyroid nodules, cystic neoplasms of the pancreas, hemangiomas, vocal cord nodules, polyps, and cysts, Castleman disease, chronic pilonidal disease, dermatofibroma, pilar cyst, pyogenic granuloma, juvenile polyposis syndrome, idiopathic pulmonary fibrosis, renal fibrosis, post-operative stricture, keloid formation, scleroderma, and cardiac fibrosis.

17. The use of claim 3, wherein the metabolic disorder is selected from obesity-associated inflammation, type II diabetes, and insulin resistance.

18. The use of claim 8, wherein the cancer is associated with a virus and the virus is selected from Epstein-Barr Virus (EBV), hepatitis B virus (HBV), hepatitis C virus (HCV), Kaposi's sarcoma associated virus (KSHV), human papilloma virus (HPV), Merkel cell polyomavirus, and human cytomegalovirus (CMV).

19. The use of claim 3, wherein the neurological disease or disorder selected from Alzheimer's disease, Parkinson's disease, Huntington disease, bipolar disorder, schizophrenia, Rubinstein-Taybi syndrome, and epilepsy.