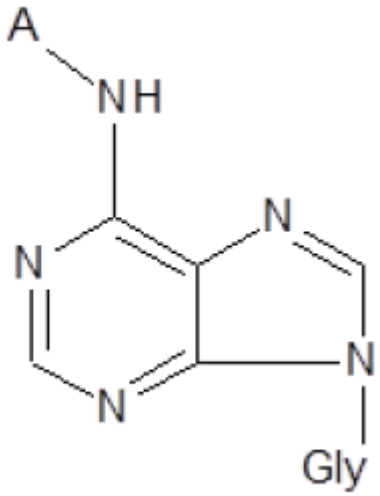
CLAIMS

1. Use of 6-aryl-9-glycosidpurine of general formula **I**



I

and pharmaceutically acceptable salts thereof with alkali metals, ammonia, amines, or addition salts with acids, wherein

Gly represents β-D-arabinofuranosyl or β-D-2´-deoxyribofuranosyl,

A represents benzyl or furfuryl, each of which can be unsubstituted or substituted by one or more, preferably one to three, substituents selected from the group comprising hydroxyl, alkyl, halogen, alkoxy, amino, mercapto, carboxyl, cyano, amido, sulfo, sulfamido, acyl, acylamino, acyloxy, alkylamino, dialkylamino, alkylmercapto, trifluoromethyl, trifluoromethoxy,

for regulation, in particular inhibition, of aging in animals, in particular mammals, for cosmetic purposes, and/or for UV photoprotection of animals, in particular mammals, for cosmetic purposes.

2. Use of 6-aryl-9-glycosylpurines of general formula I as defined in claim 1 in the manufacture of a medicament for regulation, in particular inhibition, of aging in animals, in particular mammals, for therapeutic purposes.

3. A method for regulating aging and/or UV photodamage wherein at least one compound of general formula **I** according to claim 1 is cosmetically applied to cells or microorganisms.

4. Use of 6-aryl-9-glycosidpurine according to claim 1 or 2, or the method according to claim 3, wherein the compound of general formula **I** is selected from the group consisting of: 6-furfurylamino-9-β-D-arabinofuranosylpurine, 6-(3-methylfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-methylfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-methylfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-fluorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-fluorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-fluorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-chlorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-chlorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-chlorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-bromofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-bromofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-bromofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-hydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-aminofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-aminofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-aminofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,5-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,5-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,6-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,5-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,3-dimethoxyfurfurylamino)-

9-β-D-arabinofuranosylpurine, 6-(2,4-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,5-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,6-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-5-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-6-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-2-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-4-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-5-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-6-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-2-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-3-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-5-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-6-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hexylbenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-fluoro-6-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-chloro-2,6-difluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-(trifluoromethylthio)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-chloro-3,6-difluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-

(trifluoromethylthio)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-fluoro-5-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-chloro-4-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-(trifluoromethoxy)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-chloro-3-(trifluoromethyl) benzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-fluoro-3-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,5-bis(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-(trifluoromethoxy)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-(trifluoromethoxy)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-aminobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-aminobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-aminobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-diethylaminobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,5-dihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4-dihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,5-dihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,6-dihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,5-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,3-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,5-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,6-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-5-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-6-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-2-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-4-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-5-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-6-methoxybenzylamino)-9-β-D-

arabinofuranosylpurine, 6-(4-hydroxy-2-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-3-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-5-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-6-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,3,4-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4,5-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4,6-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4,5-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3,4,5-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3,4,6-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4,5,6-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4,6-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,3,4-trihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4,6-trihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,3,4-trihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4,5-trihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4,6-trihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-5-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-6-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-5-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-6-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-5-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-6-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-5-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-methylfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-methylfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(5-methylfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-fluorofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-fluorofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine,

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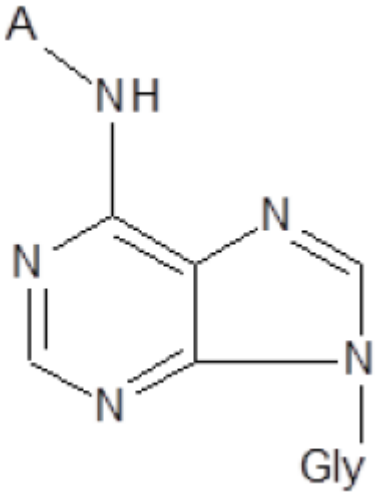
deoxyribofuranosylpurine, 6-(3-hydroxy-5-methoxyfurfurylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3-hydroxy-6-methoxyfurfurylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-hydroxy-2-methoxyfurfurylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-hydroxy-3-methoxyfurfurylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-hydroxy-5-methoxyfurfurylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-hydroxy-6-methoxyfurfurylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2-fluorobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3-fluorobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-fluorobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2-bromobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3-bromobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-bromobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2-iodobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3-iodobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-iodobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2-chlorobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2-chlorobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3-chlorobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-chlorobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2-aminobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3-aminobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-aminobenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-methoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2-hydroxybenzylamino)- 9-β-D-2′-deoxyribofuranosylpurine, 6-(3-hydroxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(4-hydroxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3,4-dihydroxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3,5-dihydroxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3,4-dihydroxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2,4-dihydroxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2,5-dihydroxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2,6-dihydroxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3,4-dimethoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3,4-dimethoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(3,5-dimethoxybenzylamino)-9-β-D-2′-deoxyribofuranosylpurine, 6-(2,3-

dimethoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2,4-dimethoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2,5-dimethoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2,6-dimethoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2-hydroxy-3-methoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2-hydroxy-4-methoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2-hydroxy-5-methoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2-hydroxy-6-methoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-hydroxy-2-methoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-hydroxy-4-methoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-hydroxy-5-methoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-hydroxy-6-methoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-hydroxy-2-methoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-hydroxy-3-methoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-hydroxy-5-methoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-hydroxy-6-methoxybenzylamino)-9-β-D-2´-deoxyribofuranosylpurine.

5. 6-aryl-9-glycosidpurine of general formula **Ia**



Ia

and pharmaceutically acceptable salts thereof with alkali metals, ammonia, amines, or addition salts with acids, wherein

Gly represents β-D-arabinofuranosyl,

A represents benzyl or furfuryl, each of which is substituted by one or more, preferably one to three, substituents selected from the group comprising hydroxyl, halogen, alkoxy, amino, mercapto, carboxyl, cyano, amido, sulfo, sulfamido, acyl, acylamino, acyloxy, alkylamino, dialkylamino, alkylmercapto, trifluoromethyl, trifluoromethoxy, or unsubstituted furfuryl,

or

Gly represents β-D-2´-deoxyribofuranosyl,

A represents

- benzyl which is substituted by one or more, preferably one to three, substituents selected from the group comprising amino, mercapto, carboxyl, cyano, amido, sulfo, sulfamido, acyl, acylamino, acyloxy, alkylamino, dialkylamino, alkylmercapto, trifluoromethyl, trifluoromethoxy, or
- furfuryl which is substituted by one or more, preferably one to three, substituents selected from the group comprising hydroxyl, halogen, alkoxy, amino, mercapto, carboxyl, cyano, amido, sulfo, sulfamido, acyl, acylamino, acyloxy, alkylamino, dialkylamino, alkylmercapto, trifluoromethyl, trifluoromethoxy, or unsubstituted furfuryl.

6. 6-aryl-9-glycosidpurine according to claim 5, selected from the group comprising 6-(3-fluorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-fluorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-fluorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-chlorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-chlorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-chlorofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-bromofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-bromofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-bromofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-hydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(5-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-aminofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-aminofurfurylamino)-9-β-D-

arabinofuranosylpurine, 6-(4-aminofurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,5-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,5-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,6-dihydroxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3,5-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,3-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,5-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2,6-dimethoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-5-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-6-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-2-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-4-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-5-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-6-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-2-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-3-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-5-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-6-methoxyfurfurylamino)-9-β-D-arabinofuranosylpurine, 6-(2-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-

methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hexylbenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-fluoro-6-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-chloro-2,6-difluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-(trifluoromethylthio)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-chloro-3,6-difluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-(trifluoromethylthio)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-fluoro-5-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-chloro-4-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-(trifluoromethoxy)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-chloro-3-(trifluoromethyl) benzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-fluoro-3-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,5-bis(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-(trifluoromethoxy)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-(trifluoromethoxy)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-(trifluoromethyl)benzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-aminobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-aminobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-aminobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-diethylaminobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,5-dihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4-dihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,5-dihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,6-dihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,5-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,3-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,5-

dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,6-dimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-5-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-6-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-2-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-4-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-5-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-hydroxy-6-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-2-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-3-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-5-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(4-hydroxy-6-methoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,3,4-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4,5-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4,6-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4,5-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3,4,5-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3,4,6-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4,5,6-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4,6-trimethoxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,3,4-trihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4,6-trihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,3,4-trihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3,4,5-trihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2,4,6-trihydroxybenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-5-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-6-chlorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-5-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-6-iodobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-bromobenzylamino)-9-β-D-

arabinofuranosylpurine, 6-(2-hydroxy-5-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-6-bromobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-3-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-4-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(2-hydroxy-5-fluorobenzylamino)-9-β-D-arabinofuranosylpurine, 6-(3-fluorofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-fluorofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(5-fluorofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-chlorofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-chlorofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(5-chlorofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-bromofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-bromofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(5-bromofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-hydroxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-hydroxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(5-hydroxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(5-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2-aminofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-aminofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-aminofurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3,4-dihydroxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3,5-dihydroxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3,4-dihydroxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2,4-dihydroxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2,5-dihydroxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2,6-dihydroxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3,4-dimethoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3,4-dimethoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3,5-dimethoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2,3-dimethoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2,4-dimethoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2,5-dimethoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2,6-dimethoxyfurfurylamino)-9-β-D-2´-

deoxyribofuranosylpurine, 6-(2-hydroxy-3-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2-hydroxy-4-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2-hydroxy-5-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2-hydroxy-6-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-hydroxy-2-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-hydroxy-4-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-hydroxy-5-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-hydroxy-6-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-hydroxy-2-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-hydroxy-3-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-hydroxy-5-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-hydroxy-6-methoxyfurfurylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(2-aminobenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(3-aminobenzylamino)-9-β-D-2´-deoxyribofuranosylpurine, 6-(4-aminobenzylamino)-9-β-D-2´-deoxyribofuranosylpurine.

7. Cosmetic compositions containing as an active ingredient at least one compound of general formula **Ia** according to claim 5 or 6.

8. Compositions according to claim 7 which are adjusted for inhibiting aging and/or for UV photoprotection of mammals, or for inhibiting aging and/or for UV photoprotection of mammalian cells, such as keratinocytes and fibroblasts.