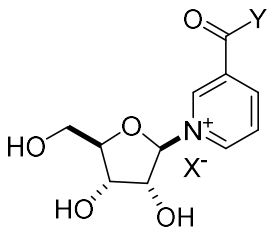
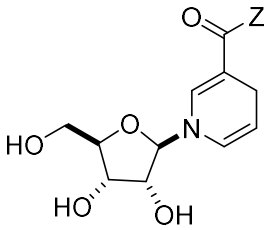
Claims

1. Use of a therapeutically effective amount of a compound of Formula (V) or Formula (VI):



(V)



(VI)

or pharmaceutically acceptable salts thereof and a therapeutically effective amount of olaparib or pharmaceutically acceptable salts thereof, in the manufacture of a pharmaceutical composition for increasing the level of nicotinamide adenine dinucleotide (NAD^+) in a in vivo cell type or in vivo tissue of a subject wherein:

Y and Z are -OH or $-NH_2$;

X^- is fluoride, chloride, bromide, iodide, nitrate, sulfate, sulfite, phosphate, bicarbonate, carbonate, thiocyanate, formate, acetate, trifluoroacetate, glycolate, lactate, gluconate, ascorbate, benzoate, oxalate, malonate, succinate, citrate, methanesulfonate, ethanesulfonate, propanesulfonate, benzenesulfonate, *p*-toluenesulfonate or trifluoromethanesulfonate; and

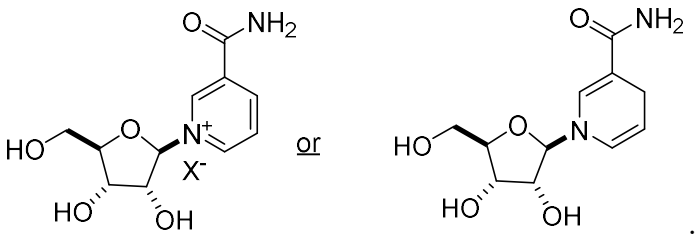
the therapeutically effective amount of olaparib is not more than 10% of the therapeutically effective amount of olaparib used in chemotherapy.

2. The use of claim 1, wherein the therapeutically effective amount of olaparib is no more than about 10%, about 5%, about 1%, about 0.5% or about 0.1% of the therapeutically effective amount of olaparib used in chemotherapy.

3. The use of claim 2, wherein the therapeutically effective amount of olaparib is no more than about 10 mg, about 5 mg, about 1 mg, about 0.5 mg or about 0.1 mg.

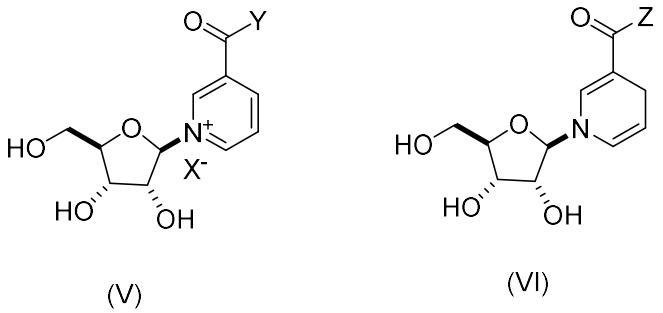
4. The use of claim 3, wherein the therapeutically effective amount of the compound is about 100 mg, 150 mg, 200 mg, 250 mg, 300 mg, 400 mg or 500 mg.

5. The use of claim 1, wherein the compound is



6. The use of claim 5, wherein the therapeutically effective amount of olaparib is no more than about 10 mg, about 5 mg, about 1 mg, about 0.5 mg or about 0.1 mg.

7. A use of a therapeutically effective amount of a compound of Formula (V) or Formula (VI):



(V) (VI)

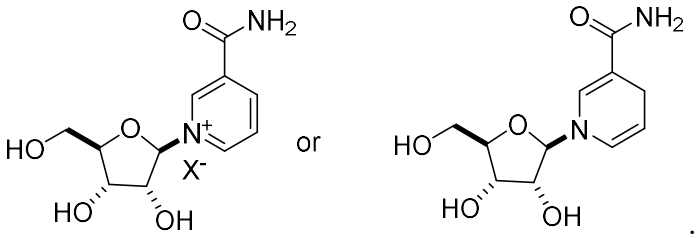
or pharmaceutically acceptable salts and a therapeutically effective amount of olaparib or pharmaceutically acceptable salts thereof in the manufacture of a pharmaceutical composition for increasing the level of cytoprotection in a in vivo cell type or in vivo tissue of a subject, wherein:
Y and Z are -OH or $-NH_2$;
X^- is fluoride, chloride, bromide, iodide, nitrate, sulfate, sulfite, phosphate, bicarbonate, carbonate, thiocyanate, formate, acetate, trifluoroacetate, glycolate, lactate, gluconate, ascorbate, benzoate, oxalate, malonate, succinate, citrate, methanesulfonate, ethanesulfonate, propanesulfonate, benzenesulfonate, *p*-toluenesulfonate or trifluoromethanesulfonate; and
the therapeutically effective amount of olaparib is not more than 10% of the therapeutically effective amount of olaparib used in chemotherapy.

8. The use of claim 7, wherein the therapeutically effective amount of olaparib is no more than about 10%, about 5%, about 1%, about 0.5% or about 0.1% of the therapeutically effective amount of olaparib used in chemotherapy.

9. The use of claim 8, wherein the therapeutically effective amount of olaparib is no more than 10 mg, about 5 mg, about 1 mg, about 0.5 mg or about 0.1 mg.

10. The use of claim 9, wherein the therapeutically effective amount of the compound is about 100 mg, 150 mg, 200 mg, 250 mg, 300 mg, 400 mg or 500 mg.

11. The use of claim 7, wherein the compound is



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12. The use of claim 11, wherein the therapeutically effective amount of olaparib is no more than about 10 mg, about 5 mg, about 1 mg, about 0.5 mg or about 0.1 mg.