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## Patent Search

Invention Title	LINAGLIPTIN NANOSUSPENSION FOR NEURODEGENERATIVE DISORDER
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### Abstract:

ABSTRACT LINAGLIPTIN NANOSUSPENSION FOR NEURODEGENERATIVE DISORDERS The present invention relates to a pharmaceutical formulation comprising of a nanosuspension of Linagliptin for nose to brain delivery for targeting and treating neurodegenerative disorders like dementia. In a particular, the present invention provid pharmaceutical formulation of a nanosuspension of a drug, comprising of: the drug in nanoparticulate form; a polymer; and a surfactant.

### Complete Specification

DESC:CROSS-REFERENCE TO RELATED APPLICATIONS AND PRIORITY

The present application claims priority from Provisional Application number 201911034265 dated 26 August 2019.

#### TECHNICAL FIELD OF THE INVENTION

[0001] The present invention relates to a novel formulation for treating/preventing neurodegenerative disorders, more particularly the present invention relates to formulation of Linagliptin (DPP-4 inhibitor) nanosuspension for treating/preventing neurodegenerative disorders, by the nose to brain drug delivery.

#### BACKGROUND OF THE INVENTION

[0002] Neurodegenerative disorders (progressive loss of structure and/or function of neurons) are usually characterized by accumulation of abnormal protein aggrega that leads to inflammation as well as oxidative stress in the central nervous system (CNS). Nearly, 1.5 billion of population suffer from brain disorders. Alzheimer's disease (AD) is the commonest cause of dementia in ageing adults. Alzheimer's, Parkinson's, Huntington's, and other neurodegenerative disorders share many common features both cellular and subcellular levels. Intracellular and extracellular changes could be observed in neurodegenerative diseases. Alzheimer's disease (AD) the commonest

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