



(11) **EP 2 404 612 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 72

(51) Int Cl.:
A61K 38/17 (2006.01) C07K 14/47 (2006.01)

(48) Corrigendum issued on:
29.02.2012 Bulletin 2012/09

(43) Date of publication:
11.01.2012 Bulletin 2012/02

(21) Application number: **10168867.9**

(22) Date of filing: **08.07.2010**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO SE SI SK SM TR
Designated Extension States:
BA ME RS

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(54) **Diagnosis, prophylaxis and therapy of Alzheimer's disease and other neurodementing disorders**

(57) The present invention relates to a polypeptide having an amino acid sequence comprising at least two substitutions of the glycine residues in one or more GXXXG motives in the amino acid sequence of the wild type A β peptide as depicted in SEQ ID NO:1. Furthermore the present invention relates to methods and a kit for diagnosing a neurodementing disease. The present invention further relates to the polypeptide for use as a

medicament in human and veterinary medicine and as a diagnostic substance, in particular for use as a medicament for the prevention and for the diagnosis of the progression of Alzheimer's disease, Down's syndrome, Dementia with Lewy bodies, fronto-temporal dementia, misfolded protein/peptide related diseases, cerebral amyloid angiopathy, Prion disease and amyloidoses.

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