

Title (en)

CYTOTOXIC PEPTIDES AND PEPTIDOMIMETICS BASED THEREON, AND METHODS FOR USE THEREOF

Title (de)

ZYTOTOXISCHE PEPTIDE UND DARAUF BASIERENDE PEPTIDOMIMETIKA UND VERFAHREN ZUR VERWENDUNG DAVON

Title (fr)

PEPTIDES CYTOTOXIQUES, PEPTIDOMIMETIQUES BASES SUR CES PEPTIDES, ET METHODES D'UTILISATION

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Application

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Abstract (en)

[origin: WO02092788A2] In accordance with the present invention, it has been discovered that the beta -amyloid precursor protein (APP), and two APP-like proteins (APLP1 and APLP2) are proteolytically cleaved by caspases in the C terminus to generate an approximately 31 amino acid peptide. It has been further discovered that the resultant C-terminal peptide is a potent inducer of apoptosis. Both caspase-cleaved APP and activated caspase-9 is present in brains of Alzheimer's disease patients but not in control brains. These findings indicate that caspase cleavage of APP and APP-like proteins leads to the generation of apoptotic peptides, which may contribute to the neuronal death associated with Alzheimer's disease. Accordingly, there are provided compositions and methods for modulating apoptosis.

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