

Technology Offer

Novel Screening Method for Agents Suitable for Therapy of Alzheimer's Disease

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Technology

We offer a screening method that allows the detection of novel drug candidates for the prophylaxis and causative therapy of Alzheimer's Disease. The identified drugs influence the substrat-enzyme interaction between amyloid precursor protein (APP) and gamma-secretase in a way that less Amyloid- β -peptide (A β 42) is produced. Furthermore they have the ability to bind selectively and with high affinity the APP-GxxxG-motif and can pass the blood-brain barrier. It was shown that a drug capable of binding the APP GxxxG motif is weakening or inhibiting the dimerization of the APP trans-membrane sequence, leading to a decreased generation of A β 42.

Benefits

- ▶ **Reliable, rapid, and easy screening assay for the identification of novel drug candidates**
- ▶ **Applicable to blood samples**

Application

Drug screening

Industry

- ▶ Pharmaceuticals
- ▶ Research & Development

About ipal

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Keywords

Drug screening, Alzheimer Disease

Development Stage

Product

IP Rights

EU patent application in November 2007

PCT patent application in November 2008

US patent application in April 2010

Origin

Freie Universität Berlin

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