+44 20 8123 2220
info@marketpublishers.com

Competitor Analysis: Tau and Amyloid Beta Targeted Therapy of Alzheimer's Disease

https://marketpublishers.com/r/CC7A508FE36EN.html
Date: August 2010
Pages: 105
Price: US$ 890.00 (Single User License)
ID: CC7A508FE36EN

Abstracts

Product description

The present Competitive Intelligence Report about Tau and Amyloid Beta Targeted Therapy of Alzheimer's Disease provides a competitor evaluation in the field of therapeutic vaccines, antibodies and small molecules targeting Tau and/or Amyloid Beta for treatment of Alzheimer's disease as of August 2010. Purchase of the downloadable pdf report includes a 6-month online access to the data of the report and any updates since the publication date. Credentials to access the database will be sent by e-mail and allow online work with the project data to print or export an individual report.

One of the main pillars of current drug discovery and development activities in the pharmaceutical industry for Alzheimer's disease is prevention of the accumulation of misfolded proteins, i.e. amyloid beta and tau. At present, the majority of approaches are directed to the amyloidogenic pathway. Amyloid beta peptides derive from amyloid precursor protein (APP) by proteolytic cleavage by beta secretase and gamma secretase.

Thus, inhibitors of beta secretase (or beta-site APP-cleaving enzyme, BACE-1) are a main area of drug discovery complicated by the substate diversity of BACE-1 and the need to pass the blood-brain barrier (BBB) which explains that only very few inhibitors entered clinical development with no compound in phase III, but many ongoing discovery programs. The first representative of the class of inhibitors and modulators of gamma secretase has entered phase III but the studies recently failed to meet the efficacy endpoint and even worsened the clinical outcomes in the studies. It remains to be seen whether follower programs in clinical phases I and II will suffer the same fate or

+44 20 8123 2220
info@marketpublishers.com

can be differentiated from Lilly's semagacestat. Most of the gamma secretase inhibitors in development are Notch-sparing molecules, thereby avoiding typical side effects of the Notch signaling pathway, e-g. gastrointestinal and hematological toxicities.

Increasing the activy of alpha secretase is another means to reduce the activity of beta secretase. A number of compounds with different primary mechanisms of action are in clinical and preclinical development.Strong efforts are made by the industry in immunotherapy against amyloid beta to inhibit generation of toxic amyloid beta aggregates and remove soluble and aggregated amuyloid beta. At least eight therapeutic vaccines against amyloid beta are under clinical investigation and more candidates are in preclinical R&D stages. Passive immunotherapy with therapeutic antibodies against amyloid beta has already reached phase III testing in clinical studies. Ten antibody projects are in clinical or IND enabling study phases and more than ten candidates in preclinical stages. Intravenous infusion of human-plasma derived immunoglobulin preparations which contain naturally occurring plyclonal anti-amyloid beta antibodies are also in advanced clinical testing.

Another approach is the development of CNS-bioavailable compounds that inhibit amyloid beta aggregation or disintegrate amyloid beta oligomeric species without being toxic or immunogenic. The second generation of such molecules has at least ten representatives in clinical studies up to phase II.

The cytoplasmic protein Tau has recently gained much interest as a target for new therapies of Alzheimer's disease where it is abnormally phosphorylated resulting in the generation of neurofibrillary tangles (aggregates) toxic to neurons. The main tau-targeted approaches include molecules inhibiting hyperphosphorylation and molecules that inhibit tau aggregation or promote aggregate disassembly. Only a few molecules have reached clinical stages, but strong research efforts are undertaken to come up with more clinical candidates.

The report includes a compilation of currently active projects in research and development of vaccines, antibodies, small molecules, proteins and peptides targeting Tau and/or the amyloid beta pathway. In addition, the report lists company-specific R&D pipelines of Tau and Amyloid Beta Targeted Therapeutics for Alzheimer's disease. Competitor projects are listed in a tabular format providing information on:

Drug Codes,

Target / Mechanism of Action,

+44 20 8123 2220
info@marketpublishers.com

Class of Compound,

Company

Product Category

Indication,

R&D Stage and

additional comments with a hyperlink leading to the source of information.

+44 20 8123 2220
info@marketpublishers.com

Contents

1. TAU TARGETED THERAPY

Tau Aggregation Inhibitors
Tau Phosphorylation Inhibitors
Microtubule Stabilizers
Tau Immunotherapy
Dual Tau & Amyloid Beta or Other Tau Targeted Therapy

2. AMYLOID BETA IMAGING

3. AMYLOID BETA IMMUNOTHERAPY (AMYLOID BETA CLEARANCE)

IV Immune Globulins (IVIG)
Passive Amyloid Beta Immunotherapy
Active Amyloid Beta Immunotherapy

4. PREVENTION OF AMYLOID BETA PRODUCTION

Beta Secretase Inhibitors & Modulators
Gamma Secretase Inhibitors
Gamma Secretase Modulators
Dual α & γ Secretase Inhibitors & Other Amyloid Production Inhibitors

5. ALPHA SECRETASE ACTIVATION (NON-AMYLOIDOGENIC PATHWAY OF APP PROCESSING)

Alpha7 Nicotinic Acetylcholine Receptor (NAChR) Agonists
GABA-A Receptor Modulation, 5-HT4 Receptor Agonism and Other ? Secretase Activators

6. AMYLOID BETA AGGREGATION REDUCTION AND AGGREGATE REMOVAL

CORPORATE ANTI-INFECTIVE ANTIBODY PORTFOLIOS AND R&D PIPELINES

Abbott
Abiogen Pharma
Ablynx

+44 20 8123 2220
info@marketpublishers.com

AC Immune
Actelion
Acumen Therapeutics
Affitech
Affiris
Alzprotect
Amgen
Archer Pharmaceuticals
ArmaGen Technologies
Astellas Pharma
Astex Therapeutics
AstraZeneca
Avid Radiopharmaceuticals
Axon Neuroscience
Baxter
Bayer Schering Pharma
Bellus Health
BioArctic Neuroscience
Biogen Idec
Boehringer Ingelheim
Bristol-Myers Squibb
Bruin Pharma
Cellzome
Chiesi Farmaceutici
CoMentis
Critical Outcome Technologies
Cytos Biotechnology
D-Pharm
Delenex
Diamedica
DNAVEC
Eisai
Elan
Eli Lilly
EnVivo Pharmaceuticals
Evotec
ExonHit Therapeutics
Galantos
Galapagos

+44 20 8123 2220
info@marketpublishers.com

GE Healthcare
GlaxoSmithKline
Grifols
Humanetics Pharmaceuticals
Immuno-Biological Laboratories
Intellect Neurosciences
Johnson & Johnson (Cilag-Janssen, Ortho-McNeil)
Kinexis
Lay Line Genomics
Ligand Pharmaceuticals
Link Medicine Corp.
Lundbeck
Medivir
Memory Pharmaceuticals
Merck & Co
Merz Pharmaceuticals
Mindset Pharmaceuticals
Mitsubishi Tanabe Pharmaceutical
NasVax
Neurimmune Therapeutics
NeuroGenetic Pharmaceuticals
Noscira
Novartis
Octapharma
Pfizer
Prana Biotechnology
Proteotech
QR Pharma
Roche (Genentech)
Samaritan Pharmaceuticals
Sanofi-Aventis
Senexis
Siena Biotech
Takeda Pharmaceutical Co
TauRx Pharmaceuticals
Transition Therapeutics
TransTech Pharma
United Biomedical
Virionics

+44 20 8123 2220
info@marketpublishers.com

Vitae Pharmaceuticals
Xytis

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Competitor Analysis: Tau and Amyloid Beta Targeted Therapy of Alzheimer’s Disease

Product link: https://marketpublishers.com/r/CC7A508FE36EN.html

Price: US$ 890.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/CC7A508FE36EN.html