

Alzheimer's disease (AD) Research Products

Alzheimer's disease (AD) is, at present, an irreversible, progressive brain disease that slowly destroys memory and thinking skills, and eventually even the ability to carry out the simplest tasks. Estimates vary, but experts suggest that as many as 5.1 million Americans may have Alzheimer's disease, while a study at the Johns Hopkins Bloomberg School of Public Health (2006) stated more than 26 million people worldwide were estimated to be living with AD and projected the global prevalence of AD at more than 106 million by 2050. The largest increase in AD will occur in Asia (from 12.65 million to 62.85 million in 2050), where 48 percent of the world's Alzheimer's cases currently reside. BioVision offers many products that are of interest to the many avenues of research for the understanding and treatment of this ever growing disease. Notably, BioVision has introduced the Kynurinine 3- Monooxygenase (KMO) inhibitor JM6. Glutamate receptor-mediated excitotoxicity and free radical formation have been correlated with decreased levels of the neuroprotective metabolite kynurenic acid. Inhibition of KMO increases kynurenic acid levels and reduces extracellular glutamate in the brain. This is especially significant since inhibitors like JM6 do not need to penetrate into the blood-brain barrier, but work by inhibiting KMO in the blood then send a protective signal to the brain, to stabilize brain-cell function and prevent neurodegeneration.

Secretases

Assay Kits

Name	Cat. #
β -Secretase Activity Assay Kit	K360-100

Antibodies

Name	Cat. #
TACE Antibody	3222-100

Enzymes

Name	Cat. #
β -Secretase, human recombinant	7604-20, 100, 1000

Inhibitors

β -Secretase Inhibitors

Name	Cat. #
β -Secretase Inhibitor I	7501-1
β -Secretase Inhibitor II	7502-1

γ -Secretase Inhibitors

Name	Cat. #
DAPT	1855-5
Compound 34	1898-200, 1000
Compound E	1949-250, 1000
L-685,458	1713-250

ApoE

Antibodies

Name	Cat. #
ApoE2 Antibody	5760-100
ApoE4 Antibody	5699-100

ApoE Continued...

Proteins

Name	Cat. #
APOE2, human recombinant	4760-50, 500, 1000, 5000
ApoE4, human recombinant	4699-50, 500, 1000, 5000

Presenilin

Antibodies

Name	Cat. #
Presenilin1 Antibody	3481-100
Presenilin2 Antibody	3482-100

GSK3 and β -Catenin

Antibodies

Name	Cat. #
GSK-3 α Antibody	3493-100
Phospho-GSK-3 α Antibody	3516-100
GSK-3 β Antibody	3494-100
Phospho-GSK-3 β Antibody	3495-100
Phospho- β -Catenin Antibody	3381-100

Enzymes

Name	Cat. #
GSK3- α -GST Fusion Protein	7003-100
GSK3- β , human recombinant	7004-100

GSK3 and β -Catenin Continued...

Inhibitors

Name	Cat. #
Alsterpaullone	1897-1, 5
1-Azakenpaullone	1944-1,5
BIO	1673-1
Bisindolylmaleimide I	1945-1, 5
Bisindolylmaleimide I hydrochloride	1947-1, 5
CHIR99021	1677-5, 25
EZSolution™ CHIR99021	1748-5
GSK3- β Inhibitor, TWS119	1655-2
Kenpaullone	1904-1
Ro 31-8220 methanesulfonate	1946-1, 5
SB 216763	1769-1,5

APP

Antibodies

Name	Cat. #
TACE Antibody	3222-100

Tau

Antibodies

Name	Cat. #
Tau Antibody	3549R-100
Tau-13 Antibody	3453-100

NOTCH1

Antibodies

Name	Cat. #
Notch1 Antibody	3881-100

Kynurinine 3- Monooxygenase (KMO)

Inhibitors

Name	Cat. #
Ro 61-8048	1912-5, 25
JM6	1913-5, 25

HDACs

Assay Kits

Name	Cat. #
HDAC Colorimetric Assay Kit	K331-100
HDAC Fluorometric Assay Kit	K330-100
HDAC Inhibitor Drug Screening Kit	K340-100
HDAC3 Activity Assay Kit	K343-100
HDAC3 Inhibitor Screening Kit	K363-100
HDAC8 Activity Assay Kit	K348-100
HDAC8 Inhibitor Screening Kit	K368-100

Antibodies

Name	Cat. #
HDAC1 Antibody	3601-100
HDAC2 Antibody	3602-100
HDAC3 Antibody	3603-100
HDAC4 Antibody	3604A-100
HDAC4 Antibody	3604-100
HDAC5 Antibody	3605-100
HDAC6 Antibody	3606-100
HDAC7 Antibody	3607-100
HDAC8 Antibody	3608-100
HDAC9 Antibody	3609-100
HDAC10 Antibody	3610-100
HDAC11 Antibody	3611-100
HDAC Family Antibody Set	K333-11-30

Enzymes

Name	Cat. #
HDAC3, human recombinant	7613-250, 1000
HDAC8, human recombinant	7618-20, -100, -1000
HeLa Nuclear Extract	1641-01, -1

Inhibitors

Name	Cat. #
Apicidin	1601-01
CI-994	1742-10, 50
CUDC-101	1966-5, 25
DiscoveryPak™ HDAC Inhibitor Set	K851-6
M344	1607-1
MS-275 (Entinostat, SNDX-275)	1590-1, 5
Panobinostat (LBH589)	1612-1, 5
SAHA	1604-1
Sodium 4-phenylbutyrate	1608-100, 1000
Sodium Butyrate	1609-1000
Splitomycin	1610-5
Trichostatin A	1606-1
Tubacin	1984-250, 1000
Tubastatin A	1724-1, 5
Valproic Acid Sodium Salt	1647-200