

Anti-BACE1 Antibody

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature
Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Anti-BACE1 Antibody is a humanized monoclonal antibody targeting beta-site amyloid precursor protein cleaving enzyme 1 (BACE1). BACE1 is a transmembrane aspartic protease and the rate-limiting enzyme for the generation of A β peptides in Alzheimer's disease (AD). This antibody functions by specifically binding to the extracellular domain of BACE1, neutralizing its enzymatic activity or inducing receptor internalization to block the beta-site cleavage of amyloid precursor protein (APP). This process effectively reduces the production of toxic A β 40/42 and inhibits the formation and deposition of amyloid plaques, making it a pivotal tool for researching the pathogenesis and immunotherapeutic strategies of neurodegenerative diseases.
Targets(IC50)	Beta-Secretase
In vitro	Anti-BACE1 Antibody binds BACE1 with high affinity and dose-dependently reduces A β 40 and A β 42 secretion in neuronal cultures. At nanomolar (nM) concentrations, it effectively inhibits beta-secretase activity and prevents APP amyloidogenic processing [1][2].
In vivo	Systemic administration of Anti-BACE1 Antibody significantly reduces brain and plasma A β levels in AD mouse models. The treatment inhibits new plaque formation and stabilizes synaptic density in complex physiological environments [2].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481