



Product Data Sheet

□ Cat # RP-435

Recombinant Human Beta-Site APP-Cleaving Enzyme 1

Size: □ 1 ug □ 5 ug

Synonyms:

ASP2, BACE, HSPC104, Memapsin-2, Aspartyl protease 2, Asp 2, BACE1, Beta-secretase 1, EC 3.4.23.46, Beta-site APP cleaving enzyme 1, Beta-site amyloid precursor protein cleaving enzyme 1, Membrane-associated aspartic protease 2, FLJ90568, KIAA1149.

Introduction:

Cerebral deposition of amyloid beta peptide is an early and critical feature of Alzheimer's disease. Amyloid beta peptide is generated by proteolytic cleavage of amyloid precursor protein (APP) by two proteases, one of which is the protein encoded by this gene. BACE1 is a member of the peptidase A1 protein family, is a type I integral membrane glycoprotein and aspartic protease that is found mainly in the Golgi. Four transcript variants encoding different isoforms have been described for this gene. BACE1 is responsible for the proteolytic processing of the amyloid precursor protein (APP). BACE-1 cleaves at the n-terminus of the a-beta peptide sequence, between residues 671 and 672 of APP, leads to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated c-terminal fragment which is later released by gamma-secretase

Description:

BACE-1 Human Recombinant is expressed in E. coli containing 366 amino acids 28-393.
The BACE1 is purified by proprietary chromatographic techniques.

Source:

Escherichia Coli.

Rev. 1300304P

Physical Appearance:

Sterile Filtered clear solution.

Formulation:

20mM Tris, 20mM KCl, 0.3M NaCl and 10% glycerol, pH 7.8.

Stability:

Store at 4°C if entire vial will be used within 1-2 weeks.
Store, frozen at -20°C for longer periods of time.
Please prevent freeze-thaw cycles.

Purity:

Greater than 95% as determined by SDS-PAGE.

Applications:

Recombinant BACE-1 is an excellent protein for proteases functional assays; highly active, excellent for BACE-1 inhibitor screen assay.

Storage and stability:

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.