BACE1 Protein, Human (HEK293, N-His)

Cat. No.:	HY-P700606
Synonyms:	Beta-secretase 1; ASP2; Memapsin-2; BACE1; BACE; KIAA1149
Species:	Human
Source:	HEK293
Accession:	P56817-1 (T22-T457)
Gene ID:	23621
Molecular Weight:	56-85 kDa

PROPERTIES

AA Sequence	TQHGIRLPLR SGLGGAPLGL RLPRETDEEP EEPGRRGSFV EMVDNLRGKS GQGYYVEMTV GSPPQTLNIL VDTGSSNFAV GAAPHPFLHR YYQRQLSSTY RDLRKGVYVP YTQGKWEGEL GTDLVSIPHG PNVTVRANIA AITESDKFFI NGSNWEGILG LAYAEIARPD DSLEPFFDSL VKQTHVPNLF SLQLCGAGFP LNQSEVLASV GGSMIIGGID HSLYTGSLWY TPIRREWYYE VIIVRVEING QDLKMDCKEY NYDKSIVDSG TTNLRLPKKV FEAAVKSIKA ASSTEKFPDG FWLGEQLVCW QAGTTPWNIF PVISLYLMGE VTNQSFRITI LPQQYLRPVE DVATSQDDCY KFAISQSSTG TVMGAVIMEG FYVVFDRARK RIGFAVSACH VHDEFRTAAV EGPFVTLDME DCGYNIPQTD ESTLMT
Biological Activity	Measured by its ability to cleave a fluorogenic peptide substrate, Mca-SEVNLDAEFRK(Dpn)RR-NH2. Read at excitation and emission wavelengths of 320 nm and 405 nm. The specific activity is 173.598 pmoL/min/μg, as measured under the described conditions.
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The BACE1 protein plays a pivotal role in the proteolytic processing of the amyloid precursor protein (APP). It initiates cleavage at the N-terminus of the A-beta peptide sequence, specifically between residues 671 and 672 of APP, resulting in the production and subsequent extracellular release of beta-cleaved soluble APP. Simultaneously, BACE1 generates a corresponding cell-associated C-terminal fragment, subsequently released by gamma-secretase. In addition to its primary target, BACE1 also exhibits cleavage activity on CHL1, as observed through its similarity in cleaving this substrate.

Caution: Product has not been fully validated for medical applications. For research use only.

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