## Human BACE1, C-His Tag Protein HA211177



Product name:	Human BACE1, C-His Tag							
Species reactivity:	Human							
Bio-Activity:	Testing in progress.							
Protein construction description:	A DNA sequence encoding the human BACE1 protein (P56817-1) (Thr 22-Thr 457) was expressed with a His tag at the C-terminus.							
Background:	Beta-secretase 1, also known as beta-site amyloid precursor protein cleaving enzyme 1, beta-site APP cleaving enzyme 1 (BACE1), membrane-associated aspartic protease 2, memapsin-2, aspartyl protease 2, and ASP2, is an enzyme that in humans is encoded by the BACE1 gene. Expression of BACE1 is observed mainly in neurons. BACE1 is an aspartic acid protease important in the formation of myelin sheaths in peripheral nerve cells: in mice the expression of BACE1 is high in the postnatal stages, when myelination occurs. The transmembrane protein contains two active site aspartate residues in its extracellular protein domain and may function as a dimer, its cytoplasmic tail is required for the correct maturation and an efficient intracellular trafficking, but doesn't affect the activity. It is produced as a pro-enzyme, the endoproteolitc removal occurs after BACE leaves Endoplasmic reticulum, in the Golgi apparatus. In addition the pro-peptide receives additional sugars to increase the molecular mass. and the tail became a palmitoylated. The BACE1 expression is influenced by the inflammatory state: during AD the cytokines reduce the PPAR1 an inhibitor of BACE1 mRNA).							
Purity:	>95% as determined by SDS-PAGE.							
Endotoxin:	Less than 1.0 EU per $\mu$ g by the LAL method.							
Fragment region:	BACE1 (22-457)							
Source:	HEK293							
Accession:	P56817-1							
Predicted molecular mass:	50.2 kD							
Formulation:	Lyophilized from a 0.2 $\mu m$ filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.							
Reconstitution:	Reconstitute at 250 µg/ml in sterile water.							
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at - $20^{\circ}$ C to - $80^{\circ}$ C It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.							

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images



Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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