Human BACE-1 Protein

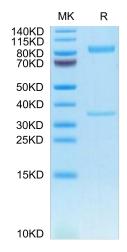
Cat. No. BAE-HM201

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Description	
Source	Recombinant Human BACE-1 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Thr22-Thr457.
Accession	NP_036236.1
Molecular Weight	The protein has a predicted MW of 75.2 kDa (pro-form) and 72.6 kDa (mature-form). Due to glycosylation, the protein migrates to 85-100 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per ug by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
Formulation and	Storage
Formulation	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	The beta-site amyloid precursor protein cleaving enzyme-1 (BACE-1) initiates the generation of amyloid-β (Aβ), and the amyloid cascade leading to amyloid plaque deposition, neurodegeneration, and dementia in Alzheimer's disease (AD). Clinical failures of anti-Aβ therapies in dementia stages suggest that treatment has to start in the

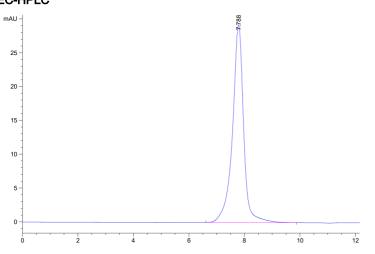
Assay Data

Bis-Tris PAGE



Human BACE-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



early, asymptomatic disease states.

The purity of Human BACE-1 is greater than 95% as determined by SEC-HPLC.

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Assay Data

Bioactivity Data

Measured by its ability to cleave a fluorogenic peptide substrate, Mca-SEVNLDAEFRK(Dpn)RR-NH2. The specific activity is > 3 pmol/min/µg.

