

## Active $\beta$ -Secretase, Human Recombinant

CATALOG #:	7604-20	20 $\mu$ g
	7604-100	100 $\mu$ g
	7604-1000	1 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
ACCESSION#:	P56817 (aa57 -453 with a C-terminal His-tag)	
PURITY:	>95% by SDS-PAGE	
FORM:	Lyophilized from 100 mM Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> , 200 mM NaCl, pH 8.5	
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in dH <sub>2</sub> O to a concentration of 0.1-1.0 mg/ml .	
STORAGE CONDITIONS:	The lyophilized protein is best-stored desiccated below 0°C. Reconstituted BACE-1 should be aliquoted and stored at -70°C.	
DESCRIPTION:	$\beta$ -Secretase, also called BACE1 ( $\beta$ -site of APP cleaving enzyme) or memapsin-2 is an aspartic-acid protease important in the pathogenesis of Alzheimer's disease, and in the formation of myelin sheaths in peripheral nerve cells. The transmembrane protein, contains two active site aspartate residues in its extracellular protein domain and may function as a dimer..	
BIOLOGICAL ACTIVITY:	BioVision's recombinant human beta-Secretase/BACE-1 is biologically active as determined using our $\beta$ -Secretase Activity Assay Kit (Cat# K360-100).	

**FOR RESEARCH USE ONLY! Not to be used on humans.**

### RELATED PRODUCTS:

- Apoptosis Detection Kits & Reagents
  - Annexin V Kits & Bulk Reagents
  - Caspase Assay Kits & Reagents
  - Mitochondrial Apoptosis Kits & Reagents
  - Nuclear Apoptosis Kits & Reagents
  - Apoptosis Inducers and Set
  - Apoptosis siRNA Vectors
- Cell Fractionation System
  - Mitochondria/Cytosol Fractionation Kit
  - Nuclear/Cytosol Fractionation Kit
  - Membrane Protein Extraction Kit
  - Cytosol/Particulate Rapid Separation Kit
  - Mammalian Cell Extraction Kit
  - FractionPREP Fractionation System
- Cell Proliferation & Senescence
  - Quick Cell Proliferation Assay Kit
  - Senescence Detection Kit
  - High Throughput Apoptosis/Cell Viability Assay Kits
  - LDH-Cytotoxicity Assay Kit
  - Live/Dead Cell Staining Kit
- Cell Damage & Repair
  - HDAC & HAT Fluorometric & Colorimetric Assays & Drug Discovery Kits
  - DNA Damage Quantification Kit
  - Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits
- Signal Transduction
  - cAMP & cGMP Assay Kits
  - Akt & JNK Activity Assay Kits
  - Beta-Secretase Activity Assay Kit
- Metabolism Assays
  - Carbohydrate Assays
  - Lipid Metabolism Assays
  - Amino Acids Assays
  - Inorganic Ions Assays
  - Coenzymes & cofactors Assays
  - Oxidative Stress Assays
  - Serum Components Assays
  - Intermediary Metabolism Assays
- Molecular Biology & Reporter Assays
  - siRNA Vectors
  - Cloning Insert Quick Screening Kit
  - Mitochondrial & Genomic DNA Isolation Kits
  - 5 Minutes DNA Ligation Kit
  - 20 Minutes Gel Staining/Destaining Kit
  - $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit