Recombinant Human GSAP protein, His & T7-tagged

Cat. No. GSAP-1584H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GSAP aa. (Asp616~Leu854 (Accession # A4D1B5)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asp616~Leu854
Description	Accumulation of neurotoxic amyloid-beta is a major hallmark of Alzheimer disease (AD; MIM 104300). Formation of amyloid-beta is catalyzed by gamma-secretase (see PSEN1; MIM 104311), a protease with numerous substrates. PION, or GSAP, selectively increases amyloid-beta production through a mechanism involving its interaction with both gamma-secretase and its substrate, the amyloid-beta precursor protein (APP; MIM 104760) C-terminal fragment (APP-CTF) (He et al., 2010 [PubMed 20811458]).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.1kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

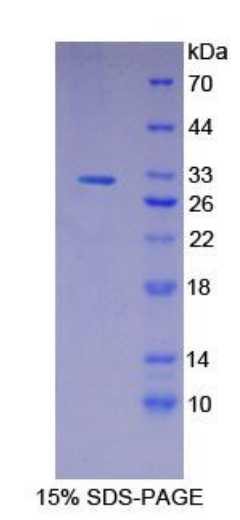
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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in ddH2O.
Isoelectric Point	7.9

GENE INFORMATION

Gene Name	GSAP gamma-secretase activating protein [Homo sapiens (human)]
Official Symbol	GSAP
Synonyms	GSAP; gamma-secretase activating protein; PION; gamma-secretase-activating protein; pigeon homolog; protein pigeon homolog
Gene ID	54103
mRNA Refseq	NM_017439.3
Protein Refseq	NP_059135.2

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UniProt ID	A4D1B5
SDS-PAGE	 15% SDS-PAGE

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