

Recombinant Human PSAP protein, GST-tagged

Cat. No. PSAP-257H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSAP(1 a.a. - 524 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-524 a.a.
Description	This gene encodes a highly conserved glycoprotein which is a precursor for 4 cleavage products: saposins A, B, C, and D. Each domain of the precursor protein is approximately 80 amino acid residues long with nearly identical placement of cysteine residues and glycosylation sites. Saposins A-D localize primarily to the lysosomal compartment where they facilitate the catabolism of glycosphingolipids with short oligosaccharide groups. The precursor protein exists both as a secretory protein and as an integral membrane protein and has neurotrophic activities. Mutations in this gene have been associated with Gaucher disease, Tay-Sachs disease, and metachromatic leukodystrophy. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	83.16 kDa
AA Sequence	MYALFLLASLLGAALAGPVLGLKECTRGSAVWCQNVKTASDCGAVKHCLQTVWNK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PTVKSLPCDICKDVVTAAGD MLKDNATEEEILVYLEKTCDWLPKPNMSASCKEIVDS
 YLPVILDIKGEVSRPGEVCSALNLCESLQKHLAELNH QKQLESNKIPELDITEVVAPF
 MANIPLLLYPQDGPRSKPQPKDNGDVCQDCIQMVTDIQTAVRTNSTFVQALVEH VK
 EECDRLGPGMADICKNYISQYSEIAIQMMMHHMQPKEICALVGFCDEVKEMPMQTLV
 PAKVASKNVIPALELVE PIKKHEVPAKSDVYCEVCEFLVKEVTKLIDNNKTEKEILDAF
 DKMCSKLPKSLSEECQEVVDITYGSSILSILLEE VSPELVCSMLHLCSGTRLPALTVH
 VTQPKDGGFCEVCKKLVGYLDRNLEKNSTKQEILAALEKGCSFLPDYPYQKQ CDQFV
 AEYEPVLIEILVEVMDPSFVCLKIGACPLAHKPLLGTEKCIWGPSYWCQNTETAAQCN
 AVEHCKRHVWN

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

PSAP prosaposin [Homo sapiens]

Official Symbol

PSAP

Synonyms

PSAP; prosaposin; GLBA, SAP1, sphingolipid activator protein 1; proactivator
 polypeptide; variant Gaucher disease and variant metachromatic leukodystrophy;
 sphingolipid activator protein-1; GLBA; SAP1; FLJ00245; MGC110993;

Gene ID

5660

mRNA Refseq

NM_002778

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Protein Refseq	NP_002769
MIM	176801
UniProt ID	P07602
Chromosome Location	10q21-q22
Pathway	Glycosphingolipid metabolism, organism-specific biosystem; Hemostasis, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem;
Function	enzyme activator activity; lipid binding;

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