

Recombinant Human PSAP, His-tagged

Cat. No. PSAP-30347TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 255-526 of Human PSAP with N terminal His tag; 272 amino acids, 32kDa.
Species	Human
Source	E.coli
ProteinLength	255-526 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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 58 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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	phosphate, 10mM Sodium chloride, pH 4.5
Storage	Store at 4°C. Upon reconstitution store at -80oC.
Sequences of amino acids	MMMHMDQQPKEICALVGFCDEVKEMPMQTLVPAKVASKNV IPALELVEPIKKHEVP AKSDVYCEVCEFLVKEVTKLID NNKTEKEILDAFDKMCSKLPKSLSEECQEVVDTYG SSI LSILLEEVSPELVCSMLHLCSGTRLPALTVHVTQPKDGGF CEVCKKLVGYLDRN LEKNSTKQEILAALEKGCSFLPDP YQKQCDQFVAEYEPVLIEILVEVMDPSFVCLKIG ACPS AHKPLLGTEKCIWGPSYWCQNTETAAQCNAVEHCKRHV WN
Sequence Similarities	Contains 2 saposin A-type domains.Contains 4 saposin B-type domains.
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;
Gene ID	5660
mRNA Refseq	NM_001042465
Protein Refseq	NP_001035930
MIM	176801
Uniprot ID	P07602

Chromosome Location	10q21-q22
Pathway	Hemostasis, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem; Platelet degranulation, organism-specific biosystem;
Function	enzyme activator activity; lipid binding;

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