

Recombinant Human PSAP protein, His/T7-tagged

Cat. No. PSAP-19H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSAP(Gly17~Asn524) fused with His/T7 tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	17-524 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	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Molecular Mass	60.2kDa
AA Sequence	GPVL GLKECTRGSA VWCQNVKTAS DCGAVKHCLQ TVWNKPTVKS

 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

LPCDICKDVV TAAGDMLKDN ATEEEILVYL EKTCDWLPKP NMSASCKEIV
 DSYLPVILDI IKGEMSRPGE VCSALNLCES LQKHLAELNH QKQLESNKIP
 ELDMTEVVAP FMANIPLLLY PQDGPRSKPQ PKDNGDVCQD CIQMVTDIQT
 AVRTNSTFVQ ALVEHVKEEC DRLGPGMADI CKNYISQYSE IAIQMMMHHMQ
 PKEICALVGF CDEVKEMPMQ TLVPAKVASK NVIPALELVE PIKKHEVPAK
 SDVYCEVCEF LVKEVTKLID NNKTEKEILD AFDKMCSKLP KSLSEECQEV
 VDTYGSSILS ILLEEVSPPEL VCSMLHLCSG TRLPALTVMH TQPKDGGFCE
 VCKKLVGILD RNLEKNSTKQ EILAALEKGC SFLPDYQKQ CDQFVAEYEP
 VLIEILVEVM DPSFVCLKIG ACPSAHKPLL GTEKCIWGPS YWCQNTETAA
 QCNAVEHCKR HVWN

Endotoxin <1.0EU per 1g (determined by the LAL method)

Purity > 95%

Applications SDS-PAGE; WB; ELISA; IP.

Storage Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Reconstitution Reconstitute in sterile PBS, pH7.2-pH7.4.

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;

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Gene ID	5660
mRNA Refseq	NM_002778
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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