

Recombinant Human PSAP Protein, His-tagged

Cat. No. PSAP-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full-length Human Prosaposin (PSAP) with a N-terminal His-tag was produced in <i>Nicotiana benthamiana</i> by Agrobacterium-mediated transient expression.
Species	Human
Source	<i>Nicotiana Benthamiana</i>
Description	This gene encodes a highly conserved preproprotein that is proteolytically processed to generate four main cleavage products including 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 and metachromatic leukodystrophy. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.
Form	Lyophilized
Molecular Mass	58.1 kDa (+ Glycosylation)
Purity	98%

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Storage	Lyophilized materials are stable for up to twelve months from date of receipt at -70 centigrade. It is recommended that reconstituted protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS, pH7.4, 175 mM Trehalose.
Shipping	At ambient temperature.

GENE INFORMATION

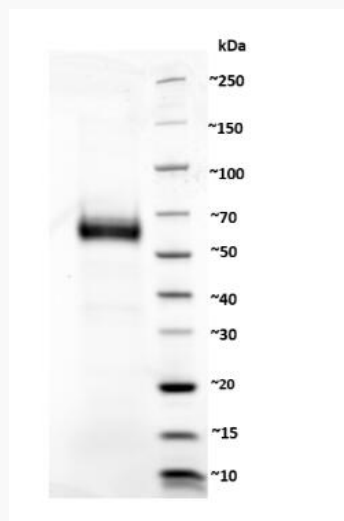
Gene Name	PSAP prosaposin [Homo sapiens (human)]
Official Symbol	PSAP
Synonyms	PSAP; prosaposin; GLBA; SAP1; SAP2; PSAPD; PARK24; prosaposin; proactivator polypeptide; saposin-A; saposin-B; saposin-C; saposin-D; sphingolipid activator protein-1; sphingolipid activator protein-2
Gene ID	5660
mRNA Refseq	NM_002778
Protein Refseq	NP_002769
MIM	176801
UniProt ID	P07602

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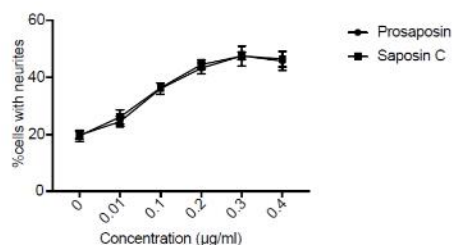
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SDS-PAGE



Reducing 4-20% SDS-PAGE analysis of 5 µg PSAP.



Neurite outgrowth in SH-SY5Y cells in response to increasing concentration of full-length recombinant human prosaposin or saposin C.