

PSAP/Prosaposin Protein, Human, Recombinant (His)

General Information

Synonyms:	prosaposin;SAP1;GLBA
Protein Construction:	A DNA sequence encoding the human PSAP (NP_002769.1) (Met1-Asn524) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Gly
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P07602-1
Molecular Weight:	57.9 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Prosaposin (PSAP) gene mutations, affecting saposin B (Sap-B) domain, cause a rare metachromatic leukodystrophy (MLD) variant in which arylsulfatase A (ARSA) activity is normal. The human prosaposin gene (PSAP) was previously localized to 10q21-->q22 by isotopic in situ hybridization using a human prosaposin cDNA as a probe. Using fluorescence in situ hybridization with a mouse genomic prosaposin fragment as probe, confirms the localization of PSAP and precisely maps it to band 10q22.1.

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