

**RPES8259**

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## Product Information

<b>Product SKU:</b> RPES8259	<b>Expression Host:</b> Mammalian	<b>Size:</b> 20µg
<b>Tag:</b> C-His	<b>Reactivity:</b> Human	<b>Accession:</b> P07602

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## Additional Information

<b>Calculated MW:</b> 57.5 kDa	<b>Observed MW:</b> 57 kDa
<b>Sequence:</b> Met1-Asn524	

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## Protein Information

**Background:** 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.

**Synonyms:** A1 activator, Cerebroside sulfate activator, Co-beta-glucosidase, Component C, CSAct, Dispersin, GLBA, Glucosylceramidase activator, Proactivator polypeptide, Proactivator polypeptide precursor, Prosaposin (sphingolipid activator protein 1), prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy), Prosaposin, Protein A, Protein C, PSAP, SAP-1, SAP-2, SAP, SAP1, Saposin A, Saposin B, Saposin B Val, Saposin C, Saposin D, Saposin-D, Saposins, Sgp1, Sphingolipid activator protein 1, Sphingolipid activator protein 2, Sulfated glycoprotein 1, Sulfatide/GM1 activator

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<b>Endotoxin:</b>	< 1.0 EU/mg of the protein as determined by the LAL method
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
<b>Purity:</b>	> 90% as determined by reducing SDS-PAGE.
<b>Bio-Activity:</b>	Not validated for activity
<b>Storage:</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.