

For Research Use Only

Recombinant Mouse PSAP/Prosaposin protein (rFc Tag)



Catalog Number: Eg3155

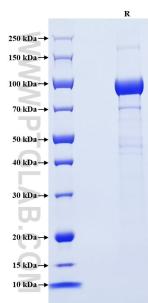
Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications			
	Purity: >90 %, SDS-PAGE		
	Endotoxin Level: <0.1 EU/μg protein, LAL method		
	Source: HEK293-derived Mouse PSAP protein Ser17-Asn557 (Accession# Q61207) with a rabbit IgG Fc tag at the C-terminus.		
	GenID: 19156		
	Accession: Q61207		
	Predicted Molecular Mass: 85.8 kDa		
	SDS-PAGE: 90-100 kDa, reducing (R) conditions		
	Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping			
	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.		
	<ul style="list-style-type: none">Until expiry date, -20°C to -80°C as lyophilized proteins.3 months, -20°C to -80°C under sterile conditions after reconstitution.		
	Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	Psap (Prosaposin) is a highly conserved glycoprotein that is involved in the metabolism of various sphingolipids within the cell and can be secreted into plasma, breast milk, or cerebrospinal fluid. Prosaposin proteins are proteolytically cleaved to produce four different polypeptides called saposin A, B, C, or D, which are required for the hydrolysis of certain sphingolipids by lysosomal hydrolases, required for the hydrolysis of certain sphingolipids by lysosomal hydrolases, and whose mutation results in lysosomal hydrolase deficiency and subsequent lysosomal storage disease. (PMID: 33197249) PSAP overexpression is associated with poor prognosis and promotes tumorigenesis and cancer stem cell proliferation in subcutaneous and in situ models of glioma. In patients with mesenchymal glioblastoma, PSAP is a marker of poor prognosis, as its high expression has been found to shorten patients' overall survival.		
References	<ol style="list-style-type: none">Lin ZH, et al. Brain. 2021;144(1):e3.Wen Z, et al. Pathol Res Pract. 2022;238:154027.Pankaj Sharma et al. Science. 2024; 383,190-200.		
Synonyms	Prosaposin, Psap, Saposin-A, Saposin-B, Saposin-B-Val		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Mouse PSAP was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.