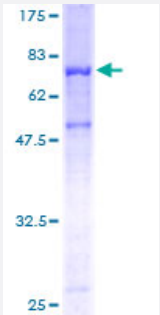
Full-Length

PSAP (Human) Recombinant Protein (P01)

Catalog # H00005660-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PSAP full-length ORF (AAH01503, 18 a.a. - 524 a.a.) recombinant protein with GST-tag at N -terminal.
Sequence	PVLGLKECTRGSAVWCQNVKTASDCGAVKHCLQTVWNKPTVKSLPCDICKDVVTAAGDMLKDN ATEEEILVYLEKTCDWLPKPNMSASCKEIVDSYLPVILDIIKGEMSRPGEVCSALNLCESLQKHLAE LNHQKQLESNKIPELDMTEVVAPFMANIPLLLYPQDGPRSKPQPKDNGDVCQDCIQMVTDIQTAV RTNSTFVQALVEHVKEECDRLGPGMADICKNYISQYSEIAIQMMMHMQPKEICALVGFCDEVKEM PMQTLVPAKVASKNVIPALELVEPIKKHEVPAKSDVYCEVCEFLVKEVTKLIDNNKTEKEILDAFDK MCSKLPKSLSEECQEVVDTYGSSILSILLEEVSPELVCSMLHLCSGTRLPALTVHVTQPKDGGFC EVCKKLVGYLDRNLEKNSTKQEILAALEKGCSFLPDPYQKQCDQFVAEYEPVLIEILVEVMDPSFV CLKIGACPSAHKPLLGTEKCIWGPSYWCQNTETAAQCNAVEHCKRHVWN
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	81.29
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PSAP

Entrez GeneID	5660
GeneBank Accession#	BC001503
Protein Accession#	AAH01503
Gene Name	PSAP
Gene Alias	FLJ00245, GLBA, MGC110993, SAP1
Gene Description	prosaposin
Omim ID	176801 249900 610539
Gene Ontology	Hyperlink
Gene Summary	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 re sidues 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 glycos phingolipids with short oligosaccharide groups. The precursor protein exists both as a secretory p rotein 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 leukodystr ophy. Alternative splicing results in multiple transcript variants encoding different isoforms. [provid ed by RefSeq
Other Designations	OTTHUMP00000019776|sphingolipid activator protein-1

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Publication Reference

- Analysis of lacrimal gland derived mesenchymal stem cell secretome and its impact on epithelial cell survival.

  Dietrich J, Roth M, König S, Geerling G, Mertsch S, Schrader S.

  Stem Cell Research 2019 Jul; 38:101477.

  Application: Func, Mouse, Mouse lacrimal gland epithelial cells

- Inducing hair follicle neogenesis with secreted proteins enriched in embryonic skin.

  Fan SM, Tsai CF, Yen CM, Lin MH, Wang WH, Chan CC, Chen CL, Phua KKL, Pan SH, Plikus MV, Yu SL, Chen YJ, Lin SJ.

  Biomaterials 2018 Jun; 167:121.

  Application: IS, Rat, Skin

- Mesotrypsin and Caspase-14 Participate in Prosaposin Processing - Potential Relevance to Epidermal Permeability Barrier Formation.

  Yamamoto-Tanaka M, Motoyama A, Miyai M, Matsunaga Y, Matsuda J, Tsuboi R, Hibino T.

  The Journal of Biological Chemistry 2014 Jul; 289(29):20026.

  Application: WB-Ce, Human, Keratinocytes

- Prosaposin, a regulator of estrogen receptor alpha, promotes breast cancer growth.

  Wu Y, Sun L, Zou W, Xu J, Liu H, Wang W, Yun X, Gu J.

  Cancer Science 2012 Oct; 103(10):1820.

  Application: Func, Human, MCF-7, T47D cells

- Biologically active recombinant human saposin C and PSAP.

  Koochekpour, Shahriar ;Hu, Siyi.

  US Patent 2010 Jan; [Epub].

Pathway

- Lysosome

Disease

- Alzheimer Disease

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- Genetic Predisposition to Disease
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Schizophrenia
- Tobacco Use Disorder

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