

Recombinant Mouse Pspn protein

Cat. No. Pspn-21M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Pspn protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	96
Description	This gene encodes a secreted ligand of the GDNF (glial cell line-derived neurotrophic factor) subfamily and TGF-beta (transforming growth factor-beta) superfamily of proteins. The encoded preproprotein is proteolytically processed to generate the mature protein. This protein signals through the RET receptor tyrosine kinase and a GPI-linked coreceptor, and promotes survival of neuronal populations. This protein may play a role in cell death, and nervous system development and function. Elevated expression of this gene has been observed in oral squamous cell carcinoma.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 30 % ACN, 0.1 % TFA, 150 mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human TT medullary thyroid cancer cells is less than 0.1 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^7$ IU/mg.
Molecular Mass	Approximately 20.7 kDa, a disulfide-linked homodimer of two 96 amino acid

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	polypeptide chains.
AA Sequence	ALAGSCRLWSLTLPV AELGLGYASEEKVIFRYCAGSCPQEARTQHSLVLARLRGRG RAHGRPCCQPTS YADVTFLLDDQHHWQQLPQLSAAACGCGG
Endotoxin	Less than 0.1 EU/g of rMuPersephin as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Pspn
Official Symbol	Pspn
Synonyms	PSPN; persephin; PSP;
Gene ID	19197
mRNA Refseq	NM_008954

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Protein Refseq	NP_032980
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UniProt ID	O70300
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