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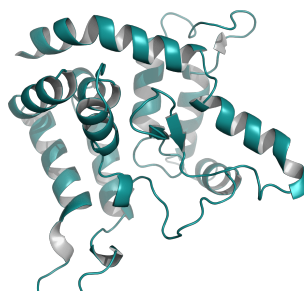
DATASHEET

Recombinant mouse Persephin / PSPN protein

Product overview

Name	Recombinant mouse Persephin / PSPN protein
Cat No	HB8135
Species of origin	mouse
Alternative names	Recombinant Mouse Persephin, Persephin, PSPN.
Purity	>95%
Description	Recombinant mouse Persephin (PSPN) protein

Images



Biological Data

Application notes	Fully biologically active when compared to standard. $ED_{50} = <0.1\text{ng/ml}$ (determined by a cell proliferation assay using human TT medullary thyroid cancer cells), corresponding to a specific activity of $> 1.0 \times 10,000,000 \text{ IU/mg}$
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Solubility & Handling

Solubility overview	To make a stock solution, reconstitute in sterile 18M Ω cm water at a concentration $> 100\mu\text{g/ml}$, which can then be diluted to make a working solution
Handling	<ul style="list-style-type: none">Solutions should be made in sterile deionized water (not less than $100 \mu\text{g/ml}$). This solution can then be further diluted with other aqueous solutions.Following reconstitution, solutions may be stored at 4°C and are useable for around 2-7 days and for future use store at -18°C.For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions. Solutions should be aliquoted into tightly sealed vials for storage at -20°C. Freeze-thaw cycles should be prevented.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

UniProt ID	O70300
Source	E. Coli.

Appearance
Formulation

White lyophilized powder (sterile filtered & freeze-dried)
Lyophilized from a 0.2µm filtered solution in 30%ACN, 0.1%TFA, NaCl (150mM)

References

Persephin, a novel neurotrophic factor related to GDNF and neurturin

Milbrandt J *et al* (1998) Neuron 20(2)

PubMedID [9491986](#)

Persephin signaling through GFRalpha1: the potential for the treatment of Parkinson's disease

Sidorova YA *et al* (2010) Mol Cell Neurosci 44(3)

PubMedID [20350599](#)

Persephin-overexpressing neural stem cells regulate the function of nigral dopaminergic neurons and prevent their degeneration in a model of Parkinson's disease

Akerud P *et al* (2002) Mol Cell Neurosci 21(2)

PubMedID [12401443](#)
