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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.  $ED_{50} = <0.1$ ng/ml (determined by a cell proliferation assay using human TT medullary thyroid cancer cells), corresponding to a specific activity of  $> 1.0 \times 10,000,000$  IU/mg

# **Solubility & Handling**

Solubility overview

To make a stock solution, reconstitute in sterile  $18M\Omega$ cm water at a concentration >  $100\mu$ g/ml, which can then be diluted to make a working solution

Handling

- Solutions should be made in sterile deionized water (not less than 100 μg/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.

**Shipping Conditions Important** 

Stable for ambient temperature shipping. Follow storage instructions on receipt.

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 Appearance Formulation E. Coli.

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