

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



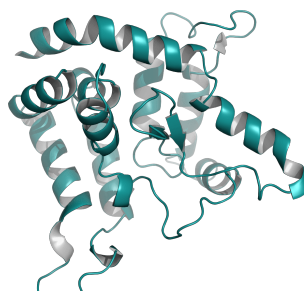
## DATASHEET

Recombinant mouse Persephin / PSPN protein

### Product overview

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

### Images



### Biological Data

<b>Application notes</b>	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 $> 1.0 \times 10,000,000 \text{ IU/mg}$
--------------------------	---

### Solubility & Handling

<b>Solubility overview</b>	To make a stock solution, reconstitute in sterile 18M $\Omega$ cm water at a concentration $> 100\mu\text{g/ml}$ , which can then be diluted to make a working solution
<b>Handling</b>	<ul style="list-style-type: none"><li>• Solutions should be made in sterile deionized water (not less than <math>100 \mu\text{g/ml}</math>). This solution can then be further diluted with other aqueous solutions.</li><li>• Following reconstitution, solutions may be stored at <math>4^\circ\text{C}</math> and are useable for around 2-7 days and for future use store at <math>-18^\circ\text{C}</math>.</li><li>• 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 <math>-20^\circ\text{C}</math>. Freeze-thaw cycles should be prevented.</li></ul>
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>UniProt ID</b>	O70300
<b>Source</b>	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](#)

---