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## DATASHEET

Recombinant human Persephin / PSPN protein

### Product overview

<b>Name</b>	Recombinant human Persephin / PSPN protein
<b>Cat No</b>	HB9314
<b>Species of origin</b>	human
<b>Alternative names</b>	Recombinant Human Persephin, Persephin, PSP, PSPN.
<b>Purity</b>	>95%
<b>Description</b>	Recombinant human Persephin (PSPN) protein

### Biological Data

<b>Application notes</b>	Fully biologically active when compared to standard. $ED_{50} = <10\text{ng/ml}$ (determined by a cell proliferation assay using human TT medullary thyroid cancer cells), corresponding to a specific activity of $> 1.0 \times 100,000 \text{ IU/mg}$
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### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	To make a stock solution, reconstitute in 4mM HCl 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 4 °C and are useable for around 2-7 days and for future use store at -18 °C.</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 -20 °C. 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>	O60542
<b>Molecular Weight</b>	20.5
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized from a $0.2\mu\text{m}$ filtered solution in PBS (pH 7.4)

### 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

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