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## Product Data Sheet

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Product Name: PSPN Mouse  
 Cat. No.: GP20866  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Persephin; PSPN.		
Amino Acid Sequence	ALAGSCLWS LTLPVAELGL GYASEEKVIF RYCAGSCPQE ARTQHSLVLA RLRGRGRAHG RPCCQPTSYA DVTFLDDQHH WQQLPQLSAA ACGCGG		
Solubility	It is recommended to reconstitute the lyophilized PSPN in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in 30 %ACN, 0.1 %TFA, 150mM NaCl.		

### Introduction

Persephin is a member of the GDNF ligand subfamily of the TGF-beta superfamily. PSPN encourages the existence and growth of key dopaminergic and motor neurons, as well as taking part in kidney development. Nonetheless, persephin does not support existence of peripheral neurons.

### Biological Activity

Fully biologically active when compared to standard. The ED<sub>50</sub> as determined by a cell proliferation assay using human TT medullary thyroid cancer cells is less than 0.1ng/ml, corresponding to a specific activity of > 1.0 6<sup>-1</sup> 10,000,000 IU/mg.

### Stability

Lyophilized PSPN although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution PSPN should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Background

PSPN Mouse Recombinant produced in E.Coli is a disulfide-linked homodimer containing 2x96 amino acids and having a molecular mass of 20.7kDa.

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