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**Product Data Sheet**

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Product Name: PSPN Human  
Cat. No.: GP20865  
Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Persephin; PSP; PSPN.		
Amino Acid Sequence	ALSGPCQLWS LTLSVAELGL GYASEEKVIF RYCAGSCPRG ARTQHGLALA RLQGQGRAHG GPCCRPTRYT DVAFLDDRHR WQRLPQLSAA ACGCGG.		
Solubility	It is recommended to reconstitute the lyophilized PSPN in 4mM HCl 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 PBS, pH 7.4.		

**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 ED50 as determined by a cell proliferation assay using human TT medullary thyroid cancer cells is less than 10ng/ml, corresponding to a specific activity of  $> 1.0 \times 10^4$  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 Human Recombinant produced in E.Coli is a disulfide-linked homodimer containing 2x96 amino acids and having a molecular mass of 20.5kDa.

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