

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Persephin (PSPN) belongs to the GDNF ligand subfamily of the TGF-beta superfamily. The amino acid sequence of PSPN exhibits significant homology to GDNF. PSPN is synthesized throughout the nervous system and presumably originates from both astroglial cells and neurons. It promotes the survival and growth of mesencephalic dopaminergic and motor neurons. It also plays a role in kidney development by promoting ureteric bud branching. PSPN binds to a receptor complex consisting of Ret tyrosine kinase and GFR-alpha-4.

Catalog Number	1370-23
Product Name	PSPN, Murine Recombinant Murine Persephin (PSPN) PSP
Source	<i>Escherichia coli</i>
MW	~20.7 kDa (2x 96 amino acids)
Sequence	ALAGSCLWS LTLPVAELGL GYASEEKVIF RYCAGSCPQE ARTQHSLVLA RLRGRGRAHG RPCCQPTSYA DVTFLDDQHH WQQLPQLSAA ACGCGG
Accession Number	O70300
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using human TT medullary thyroid cancer cells is less than 0.1 ng/ml, corresponding to a specific activity of > 1.0 × 10 ⁷ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.