

Product: **Animal Free Recombinant Human PSP**
Cat #: 300-860P
Powder

Description	Persephin (PSP) is a neurotrophic factor that promotes survival and growth of dopaminergic and motor neurons, but not peripheral neurons. Alternate names: PSP This product is produced with no animal-derived raw products, animal free equipment and animal free protocols.
MW	Non-glycosylated, disulfide-linked homodimer, containing two 97 amino acid chains, each with a molecular weight of 10.4 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Lyophilized from a sterile filtered aqueous solution containing 10 mM Na ₃ PO ₄ , pH 7.5
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by a cell proliferation assay with TT human medullary thyroid cancer cells and is typically 4 - 16 ng/mL. This corresponds to an expected specific activity of 2.5 x 10 ⁵ units/mg.
Endotoxin Level	Measured by kinetic LAL analysis and is typically < 0.05 EU/μg protein.
AA Sequence	MALSGPCQLW SLTLSVAELG LGYASEEKVI FRYCAGSCPR GARTQHGLAL ARLQQGGRAH GGPCCRPTRY TDVAFLDDRH RWQRLPQLSA AACGCGG
	Purity greater than 97% determined by Reducing and Non-reducing SDS-PAGE.
	Protein content determined by Reducing and Non-reducing SDS-PAGE.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!