

Persephin Human Recombinant

Item Number	rAP-2711
Synonyms	Persephin, PSP, PSPN.
Description	PSPN Human Recombinant produced in E.Coli is a disulfide-linked homodimer containing 2x96 amino acids and having a molecular mass of 20.5kDa. The PSPN is purified by proprietary chromatographic techniques.
Uniprot Accession Number	O60542
Amino Acid Sequence	ALAGSCLWS LTLPAELGL GYASEEKVIF RYCAGSCPQE ARTQHSLVLA RLRGRGRAHG RPCCQPTSYA DVTFLDDQHH WQLPQLSAA ACGCGG
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
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.
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 × 100,000 IU/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**