

Recombinant Human Persephin (rHuPersephin)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	107-23
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 20.5 kDa, a disulfide-linked homodimer of two 96 amino acid polypeptide chains.
Quantity:	5µg/20µg/1000µg
AA Sequence:	ALSGPCQLWS LTLSVAELGL GYASEEKVIF RYCAGSCPRG ARTQHGLALA RLQGQGRAHG GPCCRTRYT DVAFLDDRHR WQLRPQLSAA ACGCGG
Purity:	> 97 % 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 10 ng/ml, corresponding to a specific activity of > 1.0 × 10 ⁵ IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Endotoxin:	Less than 0.1 EU/µg of rHuPersephin as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 4 mM HCl to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C . Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Human Persephin

Persephin belongs to the GDNF ligand subfamily of the TGF-beta superfamily. It promotes the survival and growth of central dopaminergic and motor neurons, and also is involved in kidney development. But persephin does not support survival of peripheral neurons.