

GFH81AF Recombinant Human Persephin (Animal-Free)

Description

Persephin is a neurotrophic factor of the glial cell line-derived neurotrophic factor (GDNF) family. Persephin promotes survival and growth of dopaminergic and motor neurons, but not peripheral neurons. Persephin is a ligand for the RET receptor tyrosine kinase.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length	97 / 194 aa
Molecular Weight	10.4 / 20.8 kDa
Source	E. coli
Accession Number	O60542
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

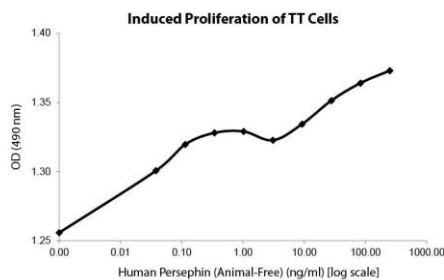
Specifications

Alternative Names	PSP
Biological Activity	Human Persephin (Animal-Free) is fully biologically active when compared to standard. The activity is determined by the ability to induce TT cells proliferation and it is typically less than 20 ng/ml. This corresponds to an expected specific activity of 4.0×10^4 units/mg.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
AA Sequence	MALSGPCQLW SLTLSVAELG LGYASEEKVI FRYCAGSCPR GARTQHGLAL ARLQGQGRAH GGPCCRPTRY TDVAFLLDDRHRWQRLPQLSA AACGCGG

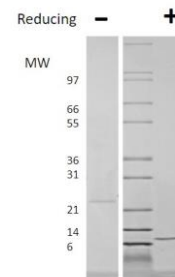
Preparation and Storage

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 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced proliferation of TT cells assay for Human Persephin. Cell proliferation was measured to calculate the ED50, which is as expected less than 20 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human Persephin has a predicted Mw of 20.8 kDa (each monomer is 10.4 kDa).