

## GFH81 Recombinant Human Persephin

### 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.

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

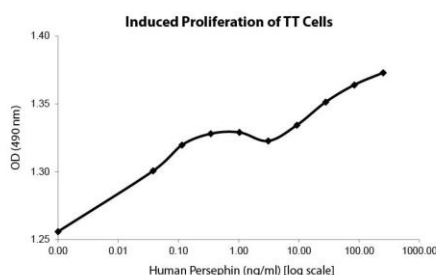
### Specifications

|                            |   |
|----------------------------|---|
| <b>Alternative Names</b>   | PSP   |
| <b>Biological Activity</b> | Human Persephin 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 $4.0 \times 10^4$ units/mg. |
| <b>Endotoxin Level</b>     | ≤1.00 EU/μg as measured by kinetic LAL  |
| <b>Formulation</b>         | Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)  |
| <b>AA Sequence</b>         | MALSGPCQLW SLTLSVAELG LGYASEEKVI FRYCAGSCPR GARTQHGLAL ARLQGQGRAH<br>GGPCCRPTRY TDVAFLDDRHRWQRLPQLSA AACGCGG  |

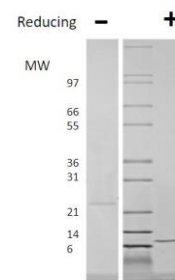
### Preparation and Storage

|                              |   |
|------------------------------|---|
| <b>Reconstitution</b>        | 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. |
| <b>Stability and Storage</b> | 12 months from date of receipt when stored at -20°C to -80°C as supplied.<br>1 month when stored at 4°C after reconstituting as directed.<br>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).