**Product Name: Recombinant Human Persephin**
**Catalog #: PEH1312**

## Summary

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|---|---|
| **Name** | Persephin |
| **Purity** | Greater than 95% as determined by reducing SDS-PAGE |
| **Endotoxin level** | <1 EU/μg as determined by LAL test. |
| **Construction** | Recombinant Human Persephin is produced by our E.coli expression system and the target gene encoding Ala61-Gly156 is expressed. |
| **Accession #** | O60542 |
| **Host** | E.coli |
| **Species** | Human |
| **Predicted Molecular Mass** | 10.4 KDa |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of 4mM HCl. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. |
| **Stability&Storage** | Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months. |
| **Reconstitution** | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in 4mM HCl. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in 4mM HCl. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

## SDS-PAGE image

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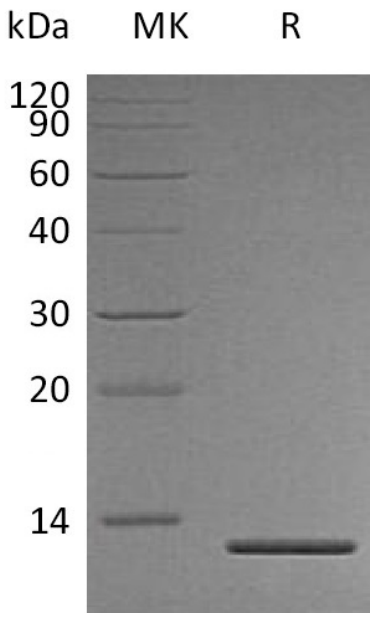


## Alternative Names

Persephin; PSP; PSPN

## Background

Persephin is a secreted protein, belongs to the glial cell linederived neurotrophic factor (GDNF) family of the TGF-β superfamily. It shares 38-46% amino acid (aa) identity with family members GDNF, neurturin and artemin. It is expressed at very low levels in most tissues. Mature protein contains a signal sequence, a pro-domain and a 96 aa mature sequence with several cysteines that are conserved among family members. It circulates as an unglycosylated disulfide-linked homodimer. Like other GDNF family members, Persephin acts through engagement of GRFα4, a glycosylphosphatidylinositol (GPI)-linked GDNF receptor family Persephin is reported to promote both the survival and growth of central dopaminergic and motor neurons, and kidney development. These effects are correlated with the expression patterns of GFRα4, and RET.

## Note

For Research Use Only , Not for Diagnostic Use.