



Recombinant Human Persephin (PSPN)

Cat No:HR2R1846

For research use only

Overview

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|--------------------|---|
| Quantity | 1.0 ?g |
| Gene Symbol | PSPN |
| Gene ID | 5623 |
| Accession | O60542 |
| Alternative Name | N/A |
| Species | Human |
| Source | E. coli |
| Description | <p>Persephin is a disulfide-linked homodimeric neurotrophic factor belonging to the Transforming Growth Factor-beta (TGF-beta) superfamily and the GDNF sub-family. One cysteine residue, out of the seven conserved, is used for inter-chain disulfide bridging while the others form a cysteine knot ring formation. It signals through RET and one of the four GFR-alpha (alpha-1, alpha-2, alpha-3, alpha-4) receptors to promote the proper development and maintenance of the nervous system. Persephin promotes survival of dopaminergic neurons in the midbrain as well as some motor neurons, and promotes branching of ureteric buds.</p> |
| Functions | The ED50 is 4.0-16.0 ng/mL as determined by a cell proliferation assay |
| Formulation | Lyophilized from a 0.2 ?m filtered solution in Acetonitrile and TFA (with BSA as a carrier protein) |
| Solubility | Reconstitute in sterile 4mM HCl at 100?g/mL (containing at least 0.1% human or bovine serum albumin) |
| Appearance | Lyophilized Powder |
| Molecular Weight | 10.7 |
| Purity | >95% as determined by SDS-PAGE |
| Concentration | <1.0 EU/?g of recombinant protein as determined by the LAL method |
| Shipping Condition | Ambient Temperature |
| Storage Condition | The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles. |