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Datasheet for ABIN7319503
Persephin Protein (PSPN) (His tag)

Overview

Quantity:	50 µg
Target:	Persephin (PSPN)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Persephin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Persephin/PSPN Protein (His Tag)
Sequence:	Ala61-Gly156
Characteristics:	Recombinant Human Persephin is produced by our E.coli expression system and the target gene encoding Ala61-Gly156 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Persephin (PSPN)
Alternative Name:	Persephin/PSPN (PSPN Products)
Background:	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.

Target Details

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 GRF α 4, 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 GFR α 4, and RET.

Synonym: Persephin, PSP, PSPN

Molecular Weight: 10.4 kDa

UniProt: [O60542](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 μ m filtered solution of 4 mM HCl.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.