

Datasheet for ABIN2468967 Persephin Protein (PSPN)



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Overview

Quantity:	0.005 mg
Target:	Persephin (PSPN)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	ALAGSCLWS LTLPVAELGL GYASEEKVIF RYCAGSCPQE ARTQHSLVLA RLRGRGRAHG RPCCQPTSYA DVTFLDDQHH WQLPQLSAA ACGCGG
Characteristics:	The ED50 was determined by its ability to stimulate proliferation of human thyroid carcinoma cells (TT cells) is < 0.1 ng/mL, corresponding to a specific activity of > 1 x 10 ⁷ units/mg.
Purity:	< 98 % by SDS-PAGE gel and HPLC analyses.
Endotoxin Level:	Endotoxin level is less than 0.1 ng per µg (1 EU/µg).

Target Details

Target:	Persephin (PSPN)
Alternative Name:	Persephin (PSPN Products)
Background:	Persephin is a disulfide-linked homodimer neurotrophic factor structurally related to GDNF, Artemin, and Neurturin. These proteins belong to the cysteine-knot family of growth factors that assume stable dimeric structures. Persephin signals through a multicomponent receptor

Target Details

system, composed of RET and one of four GFR α (α 1- α 4) receptors. The GFR α 4 was first identified in chicken and was later shown to be the preferential binding subunit for Persephin. Persephin promotes the survival of ventral midbrain dopaminergic neurons and motor neurons after sciatic nerve oxotomy, and like GDNF, promotes ureteric bud branching. However, in contrast to GDNF and Neurturin, Persephin does not support survival of peripheral neurons. Recombinant murine Persephin is a disulfide-linked homodimer, composed of two 10.3 kDa polypeptide chains (96 total amino acid residues). Each chain contains seven conserved cysteine residues, one of which (Cys 63) is used for inter-chain disulfide bridging and the others are involved in intramolecular ring formation known as the cysteine knot configuration

Gene ID: 19197

NCBI Accession: [NP_032980](#)

OMIM: 247269886

UniProt: [O70300](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Handling Advice: As with any protein, exposing Persephin recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Storage: -20 °C

Storage Comment: The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted Persephin is stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.

Expiry Date: 24 months