Persephin Protein, Human

Cat. No.:	HY-P71034
Synonyms:	Persephin; PSP; PSPN
Species:	Human
Source:	E. coli
Accession:	O60542 (A61-G156)
Gene ID:	5623
Molecular Weight:	Approximately 12.0 kDa

PROPERTIES

AA Sequence	A L S G P C Q L W S L T L S V A E L G L G Y A S E E K V I F R Y C A G S C P R G A R T Q H G L A L A R L Q G Q G R A H G G P C C R P T R Y T D V A F L D D R H R W Q R L P Q L S A A A C G C G G
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 4 mM HCl.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Persephin protein, a homodimer formed through disulfide linkages, demonstrates neurotrophic activity specifically targeting mesencephalic dopaminergic and motor neurons. The unique ability of Persephin to exert its neurotrophic effects on these specific neuronal populations suggests a specialized role in supporting and promoting the survival or function of dopaminergic and motor neurons. The homodimeric structure highlights the significance of the disulfide linkages in maintaining the integrity and functionality of Persephin, emphasizing its potential impact on neuronal development and maintenance within the mesencephalic region.

Caution: Product has not been fully validated for medical applications. For research use only.

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