

UNC5B Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P76120
Synonyms:	Netrin receptor UNC5B; p53RDL1; UNC5B; P53RDL1; UNC5H2
Species:	Rat
Source:	HEK293
Accession:	NP_071543.1 (G27-D373)
Gene ID:	60630
Molecular Weight:	Approximately 90 kDa

PROPERTIES

AA Sequence	<pre> G I D S G G Q A L P D S F P S A P A E Q L P H F L L E P E D A Y I V K N K P V E L H C R A F P A T Q I Y F K C N G E W V S Q K G H V T Q E S L D E A T G L R I R E V Q I E V S R Q Q V E E L F G L E D Y W C Q C V A W S S S G T T K S R R A Y I R I A Y L R K N F D Q E P L A K E V P L D H E V L L Q C R P P E G V P V A E V E W L K N E D V I D P A Q D T N F L L T I D H N L I I R Q A R L S D T A N Y T C V A K N I V A K R R S T T A T V I V Y V N G G W S S W A E W S P C S N R C G R G W Q K R T R T C T N P A P L N G G A F C E G Q A C Q K T A C T T V C P V D G A W T E W S K W S A C S T E C A H W R S R E C M A P P P Q N G G R D C S G T L L D S K N C T D G L C V L N Q R T L N D P K S R P L E P S G D </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized UNC5B at 5 µg/mL (100 µL/well) can bind rmNetrin-1. The ED ₅₀ for this effect is 218.2 ng/mL
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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

UNC5B promotes autophagic flux in Schwann cells (SCs) through phosphorylation of AMPK and ULK1, depending on its ligand netrin-1, protecting myelin and partially preventing injury-induced neuropathic pain (NP)^[1].
UNC5B also plays a role in axon guidance and positively regulates exogenous apoptosis signaling pathways without binding to netrin-1^[2].
The activation of UNC5B inhibits sprouting angiogenesis, making it a potential anti-angiogenic target^[3].

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

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