

## UNC5H1 Protein, Human (HEK293, His)

Cat. No.:	HY-P76693
Synonyms:	Netrin receptor UNC5A; Protein unc-5 homolog 1; KIAA1976; UNC5A
Species:	Human
Source:	HEK293
Accession:	Q6ZN44 (M1-Y306)
Gene ID:	90249
Molecular Weight:	Approximately 32.7 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
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	UNC5H1 serves as a pivotal receptor for netrin, playing a crucial role in axon guidance and promoting neurite outgrowth in response to NTN1. Within the netrin signaling pathway, it functions to mediate axon repulsion in neuronal growth cones during nervous system development in response to netrin. The association with DCC is implicated in triggering signaling pathways leading to axon repulsion. Additionally, UNC5H1 acts as a dependence receptor, inducing apoptosis when not bound to netrin ligand. The receptor forms homodimers and homooligomers and interacts with various proteins, including the cytoplasmic part of DCC, MAGED1, PRKCABP, FLRT2, and FLRT3. These intricate interactions underscore UNC5H1's multifaceted role in orchestrating axon guidance and apoptotic responses in neural development.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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