

Draxin Protein, Human (HEK293, His)

Cat. No.:	HY-P76878
Synonyms:	Dorsal inhibitory axon guidance protein; Neucrin; C1orf187
Species:	Human
Source:	HEK293
Accession:	Q8NBI3 (G26-V349)
Gene ID:	374946
Molecular Weight:	Approximately 50-60 kDa due to the glycosylation

PROPERTIES

AA Sequence	<p> G A L A P G T P A R N L P E N H I D L P G P A L W T P Q A S H H R R R G P G K K E W G P G L P S Q A Q D G A V V T A T R Q A S R L P E A E G L L P E Q S P A G L L Q D K D L L L G L A L P Y P E K E N R P P G W E R T R K R S R E H K R R R D R L R L H Q G R A L V R G P S S L M K K A E L S E A Q V L D A A M E E S S T S L A P T M F F L T T F E A A P A T E E S L I L P V T S L R P Q Q A Q P R S D G E V M P T L D M A L F D W T D Y E D L K P D G W P S A K K K E K H R G K L S S D G N E T S P A E G E P C D H H Q D C L P G T C C D L R E H L C T P H N R G L N N K C F D D C M C V E G L R C Y A K F H R N R R V T R R K G R C V E P E T A N G D Q G S F I N V </p>
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	Draxin protein plays a crucial role in the development of spinal cord and forebrain commissures, acting as a chemorepulsive guidance protein for commissural axons. Its function extends to inhibiting or repelling neurite outgrowth from the dorsal spinal cord. Additionally, Draxin serves as an antagonist of the Wnt signaling pathway by inhibiting the stabilization of
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cytosolic beta-catenin (CTNNB1) through its interaction with LRP6. This multifaceted functionality underscores the significance of Draxin in guiding axonal development and modulating key signaling pathways during neural development, highlighting its intricate involvement in shaping the intricate architecture of the nervous system.

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

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