LRRTM2 Protein, Human (HEK293, His)

Cat. No.:	HY-P70203
Synonyms:	rHuLeucine-rich repeat transmembrane neuronal protein 2/LRRTM2, His; Leucine-Rich Repeat Transmembrane Neuronal Protein 2; Leucine-Rich Repeat Neuronal 2 Protein; LRRTM2; KIAA0416; LRRN2
Species:	Human
Source:	HEK293
Accession:	O43300 (C34-R422)
Gene ID:	26045
Molecular Weight:	Approximately 74.0 kDa

PROPERTIES

AA Sequence	C P P K C R C E K L L F Y C D S Q G F H S V P N A T D K G S L G L S L R H N H I T E L E R D Q F A S F S Q L T W L H L D H N Q I S T V K E D A F Q G L Y K L K E L I L S S N K I F Y L P N T T F T Q L I N L Q N L D L S F N Q L S S L H P E L F Y G L R K L Q T L H L R S N S L R T I P V R L F W D C R S L E F L D L S T N R L R S L A R N G F A G L I K L R E L H L E H N Q L T K I N F A H F L R L S S L H T L F L Q W N K I S N L T C G M E W T W G T L E K L D L T G N E I K A I D L T V F E T M P N L K I L L M D N N K L N S L D S K I L N S L R S L T T V G L S G N L W E C S A R I C A L A S W L G S F Q G R W E H S I L C H S P D H T Q G E D I L D A V H G F Q L C W N L S T T V T V M A T T Y R D P T T E Y T K R I S S S S S Y H V G D K E I P T T A G I A V T T E E H F P E P D N A I F T Q R
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
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	The LRRTM2 Protein plays a pivotal role in the development and maintenance of excitatory synapses within the vertebrate

nervous system. Functioning as a key regulator, LRRTM2 modulates the surface expression of AMPA receptors and guides the formation of functional glutamate release sites, contributing to synaptic efficacy. Additionally, LRRTM2 acts as a ligand for presynaptic receptors NRXN1-A and NRXN1-B, suggesting its involvement in trans-synaptic signaling. This protein forms interactions with DLG4 and neurexin NRXN1, with the latter interaction mediated by heparan sulfate glycan modification on neurexin. The multifaceted interactions and regulatory functions of LRRTM2 highlight its integral role in orchestrating synaptic development and neurotransmission processes in the nervous system.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA