ROR1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70732
Synonyms:	Inactive tyrosine-protein kinase transmembrane receptor ROR1; Neurotrophic tyrosine kinase, receptor-related 1; ROR1; NTRKR1
Species:	Human
Source:	HEK293
Accession:	Q01973 (Q30-E403)
Gene ID:	4919
Molecular Weight:	60-80 kDa

PROPERTIES

AA Sequence	Q E T E L S V S A E L V P T S S W N I S S E L N K D S Y L T L D E P M N N I T T S L G Q T A E L H C K V S G N P P P T I R W F K N D A P V V Q E P R R L S F R S T I Y G S R L R I R N L D T T D T G Y F Q C V A T N G K E V V S S T G V L F V K F G P P P T A S P G Y S D E Y E E D G F C Q P Y R G I A C A R F I G N R T V Y M E S L H M Q G E I E N Q I T A A F T M I G T S S H L S D K C S Q F A I P S L C H Y A F P Y C D E T S S V P K P R D L C R D E C E I L E N V L C Q T E Y I F A R S N P M I L M R L K L P N C E D L P Q P E S P E A A N C I R I G I P M A D P I N K N H K C Y N S T G V D Y R G T V S V T K S G R Q C Q P W N S Q Y P H T H T F T A L R F P E L N G G H S Y C R N P G N Q K E A P W C F T L D E N F K S D L C D I P A C D S K D S K E K N K M E
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
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.
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	ROR1 protein exhibits very low kinase activity in vitro, suggesting an unlikely role as a tyrosine kinase in vivo. It functions as a receptor for the ligand WNT5A, activating downstream NFkB signaling pathways and potentially inhibiting WNT3A-mediated signaling. Notably, in the inner ear, ROR1 is crucial for facilitating the innervation of auditory hair cells by spiral ganglion neurons.

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