ROR2 Protein, Human (HEK293, His)

Cat. No.:	HY-P71263
Synonyms:	Tyrosine-protein kinase transmembrane receptor ROR2; Neurotrophic tyrosine kinase,receptor-related 2; ROR2; NTRKR2
Species:	Human
Source:	HEK293
Accession:	Q01974 (E34-G403)
Gene ID:	4920
Molecular Weight:	50-60 kDa

PROPERTIES

AA Sequence	E V E V L D P N D P L G P L D G Q D G P I P T L K G Y F L N F L E P V N N I T I V Q G Q T A I L H C K V A G N P P P N V R W L K N D A P V V Q E P R R I I I R K T E Y G S R L R I Q D L D T T D T G Y Y Q C V A T N G M K T I T A T G V L F V R L G P T H S P N H N F Q D D Y H E D G F C Q P Y R G I A C A R F I G N R T I Y V D S L Q M Q G E I E N R I T A A F T M I G T S T H L S D Q C S Q F A I P S F C H F V F P L C D A R S R T P K P R E L C R D E C E V L E S D L C R Q E Y T I A R S N P L I L M R L Q L P K C E A L P M P E S P D A A N C M R I G I P A E R L G R Y H Q C Y N G S G M D Y R G T A S T T K S G H Q C Q P W A L Q H P H S H H L S S T D F P E L G G G H A Y C R N P G G Q M E G P W C F T Q N K N V R M E L C D V P S C S P R D S S K M G
Biological Activity	Measured in a cell inhibition assay by using A375 cells. The ED_{50} this effect is 1.493 μg/mL, corresponding to a specific activity is 669.7924 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS or 50 mM Tris-HCL, 300 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	ROR2 protein, a tyrosine-protein kinase receptor, emerges as a key player in the early stages of chondrocyte formation and is deemed essential for cartilage and growth plate development. Its phosphorylation of YWHAB not only induces osteogenesis but also promotes bone formation. Despite exhibiting minimal tyrosine kinase activity in vitro, ROR2's intricate role extends to potentially acting as a receptor for the Wnt ligand WNT5A. This interaction may lead to the intriguing outcome of inhibiting WNT3A-mediated signaling. The multifaceted functions of ROR2 highlight its significance in orchestrating complex processes such as chondrogenesis, osteogenesis, and the intricate regulation of Wnt signaling pathways.

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