FGFR-3 Protein, Mouse (HEK293, His-Fc)

Cat. No.:	HY-P73056
Synonyms:	Fibroblast growth factor receptor 3; FGFR-3; CD333; JTK4
Species:	Mouse
Source:	HEK293
Accession:	Q7TSI8 (M1-Y367)
Gene ID:	14184
Molecular Weight:	100-110 kDa

PROPERTIES

AA Sequence	M V V P A C V L V F C V A V V A G A T S E P P G P E Q R V V R R A A E V P G P E P S Q Q E Q V A F G S G D T V E L S C H P P G G A P T G P T V W A K D G T G L V A S H R I L V G P Q R L Q V L N A S H E D A G V Y S C Q H R L T R R V L C H F S V R V T D A P S S G D D E D G E D V A E D T G A P Y W T R P E R M D K K L L A V P A A N T V R F R C P A A G N P T P S I S W L K N G K E F R G E H R I G G I K L R H Q Q W S L V M E S V V P S D R G N Y T C V V E N K F G S I R Q T Y T L D V L E R S P H R P I L Q A G L P A N Q T A I L G S D V E F H C K V Y S D A Q P H I Q W L K H V E V N G S K V G P D G T P Y V T V L K T A G A N T T D K E L E V L S L H N V T F E D A G E Y T C L A G N S I G F S H H S A W L V V L P A E E E L M E T D E A G S V Y
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. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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	FGFR-3 is a member of the fibroblast growth factor receptor family and is expressed in tissues such as cartilage, brain, intestine, and kidney. The FGFR-3 protein plays a role in bone growth by regulating ossification. FGFR-3 is an important regulator of intrachondral and membranous ossification, acting as a negative regulator of long bone growth. FGFR-3 mutations are also associated with sperm cell tumors. FGFR-3 regulates chondrocyte differentiation and chondrocyte proliferation by activating the MAPK/STAT signaling pathway[1][2][3][4][5][6].

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