GFRAL Protein, Mouse (HEK293, His-Myc)

Cat. No.:	HY-P700449
Synonyms:	GFR alpha-like; GFRAL; GRAL; C6orf144
Species:	Mouse
Source:	HEK293
Accession:	Q6SJE0 (Q20-G349)
Gene ID:	404194
Molecular Weight:	42.1 kDa

PROPERTIES

AA Sequence	Q T N D C A H L I Q K C L I D A N G C E Q S W R S M E D T C L T P G D S C K I N N S L H C N L S I Q A L V E K N F Q F K E C L C M D D L H C T V N K L F G K K C T N K T D N M E K D N K D K W N L T T T P F Y H G F K Q M Q S C L E V T E A C V G D V V C N A Q L A L Y L K A C S A N G N L C D V K H C Q A A I R F F Y Q N M P F N T A Q M L A F C D C A Q S D I P C Q Q S K E T L H S K P C A L N I V P P P T C L S V I H T C R N D E L C R T H Y R T F Q T E C W P H I T G K C H E D E T C I S M L G K Q D L T C S G S E S C R A A F L G T F G T V L Q V P C A C R G V T Q A E E H V C M I F Q H M L H S K S C F N Y P T P N V K D I S S Y E K K N S K E I T L T G F N S F F N G
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
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	GFRAL protein is a brainstem-restricted receptor that plays a crucial role in regulating food intake, energy expenditure, and body weight in response to metabolic and toxin-induced stresses. Upon binding with its ligand, GDF15, GFRAL interacts with RET and activates MAPK- and AKT- signaling pathways. GFRAL interacts with GDF15 and RET through its extracellular domain, acting as a receptor for GDF15 and mediating cellular signaling through the interaction with RET after GDF15

	binding. It is important to note that the interaction with RET requires previous GDF15 binding.

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