

GFRAL Protein, Mouse (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P700728
Synonyms:	GFR alpha-like; GFRAL; GRAL; C6orf144
Species:	Mouse
Source:	HEK293
Accession:	Q6SJEO (Q20-E350)
Gene ID:	404194
Molecular Weight:	48-60 kDa

PROPERTIES

Biological Activity	Immobilized Biotinylated Mouse GFRAL, His Tag at 0.5µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Mouse GDF15, hFc Tag with the EC ₅₀ of 6.2ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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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Caution: Product has not been fully validated for medical applications. For research use only.

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