

GFRAL Protein, Human (His-SUMO)

Cat. No.:	HY-P71580
Synonyms:	bA360D14.1; C6orf144; GDNF family receptor alpha-like; Gfral; GFRAL_HUMAN; GRAL; IVFI9356; UNQ9356; UNQ9356/PRO34128
Species:	Human
Source:	E. coli
Accession:	Q6UXV0 (S19-E351)
Gene ID:	389400
Molecular Weight:	Approximately 53.8 kDa

PROPERTIES

AA Sequence	<pre> S Q T N N C T Y L R E Q C L R D A N G C K H A W R V M E D A C N D S D P G D P C K M R N S S Y C N L S I Q Y L V E S N F Q F K E C L C T D D F Y C T V N K L L G K K C I N K S D N V K E D K F K W N L T T R S H H G F K G M W S C L E V A E A C V G D V V C N A Q L A S Y L K A C S A N G N P C D L K Q C Q A A I R F F Y Q N I P F N I A Q M L A F C D C A Q S D I P C Q Q S K E A L H S K T C A V N M V P P P T C L S V I R S C Q N D E L C R R H Y R T F Q S K C W Q R V T R K C H E D E N C I S T L S K Q D L T C S G S D D C K A A Y I D I L G T V L Q V Q C T C R T I T Q S E E S L C K I F Q H M L H R K S C F N Y P T L S N V K G M A L Y T R K H A N K I T L T G F H S P F N G E </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
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, a brainstem-restricted receptor for GDF15, plays a crucial role in regulating food intake, energy expenditure, and body weight in response to metabolic and toxin-induced stresses. Upon binding to its ligand, GDF15, GFRAL interacts with RET and activates cellular signaling through the MAPK- and AKT-signaling pathways. The receptor, through its extracellular domain, forms complexes with both GDF15 and RET, mediating cellular signaling specifically when RET is
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engaged after GDF15 binding. This intricate interaction highlights the sequential steps involving GFRAL, GDF15, and RET in the modulation of physiological responses to metabolic challenges.

Caution: Product has not been fully validated for medical applications. For research use only.

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