

HUMAN GFRAL PROTEIN, HIS TAG

Cat.#: 11417

Product Name: Human GFRAL Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: bA360D14.1;C6orf144;GRAL;UNQ9356

Target: GFRAL

UNIPROT ID: Q6UXV0

Description: Recombinant human GFRAL protein with C-terminal 6xHis tag

Background: Brainstem-restricted receptor for GDF15 which regulates food intake, energy expenditure and body weight in response to metabolic and toxin-induced stresses (PubMed:28953886, PubMed:28846097, PubMed:28846098, PubMed:28846099). Upon interaction with its ligand, GDF15, interacts with RET and induces cellular signaling through activation of MAPK- and AKT- signaling pathways.[UniProtKB/Swiss-Prot Function]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 38.6 kDa after removal of the signal peptide. The apparent molecular mass of GFRAL-His is approximately 35-55 kDa due to glycosylation.

Molecular Characterization: GFRAL(Ser19-Glu351) 6xHis tag

Purity: The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

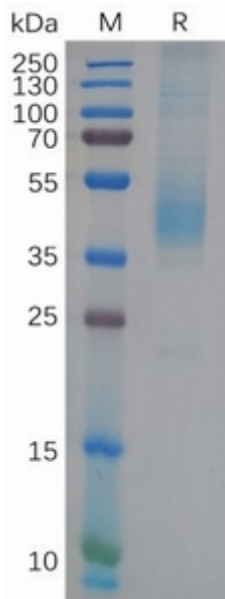


Figure 1. Human GFRAL Protein, His Tag on SDS-PAGE under reducing condition.