Data Sheet (Cat.No.TMPK-01370)

TargetMol

GRP-10 proform Protein, Canine, Recombinant (hFc)

General Information

Synonyms:	Gastrin-releasing peptide;GRP
Protein Construction:	Ala24-Gly147
Species:	Canine
Expression Host:	HEK293 Cells
Accession:	E2QW58
Molecular Weight:	40.49 kDa (predicted). Due to glycosylation, the protein migrates to 41-50 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Gastrin-releasing peptide (GRP) is a neuropeptide with growth-stimulatory and tumorigenic properties, and neuropeptides have previously been suggested to play a role in the complex cascade of chemical activity associated with periodontal inflammation.

Reference

Choi Y, et al. Gastrin-Releasing Peptide (GRP) Stimulates Osteoclastogenesis in Periodontitis. Cells. 2020 Dec 31;10 (1):50. doi: 10.3390/cells10010050. PMID: 33396360; PMCID: PMC7823805.

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