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Recombinant Human REG3G Protein

Catalog No.: RP03255 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	130120	Q6UW15

Tags
C-His

Synonyms
Regenerating islet-derived protein 3-gamma; REG-3-gamma; REG3G; Pancreatitis-associated protein 1B; PAP1B

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
18 kDa	15-20 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Regenerating islet-derived 3 gamma (REG3G), also known as pancreatitis-associated protein 1B (PAP1B), is a member of the secreted Reg superfamily and contains one typical C-type lectin domain. REG3G is expressed weakly in pancreas, strongly in intestinal tract, but not in hyperplastic islets REG3G might be a stress protein involved in the control of bacterial proliferation. It was indicated that REG3G specifically targets Gram-positive bacteria because it binds to their surface peptidoglycan layer, and serves as one of several antimicrobial peptides produced by paneth cells via stimulation of toll-like receptors (TLRs) by pathogen-associated molecular patterns (PAMPs).

Basic Information

Description
Recombinant Human REG3G Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Asp175) of human REG3G (Accession #Q6UW15) fused with His tag at the C-terminus.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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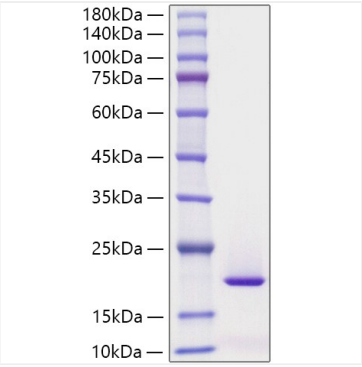
Validation Data



Recombinant Human REG3G Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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