

GP2 Protein, Mouse, Recombinant (E. coli, His)

General Information

Synonyms:	Pancreatic secretory granule membrane major glycoprotein GP2;Gp2;Pancreatic zymogen granule membrane protein GP-2
Protein Construction:	22-531 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q9D733
Molecular Weight:	63.0 kDa (predicted)
AA Sequence:	STIHQGYGRPNSSNLDLDCGSPDSSGGICFDPQNHVTLNDPTRSTENNDSSVAWCDDNLHGWFVFGD GGVKMPETCVSVFRCHTSAPMWLWLSGSHPI LGD GIVSHTACANWNENCCFWRSEVQVKACSEELGEYHVYKL QGTPECSLRYCTDPSTAPKNCEITCRPEEECVFQNNNWSCVCRQDLHVSQSLQPLLDCGDNEIKVKLDKCL LGGMGFKEEIIAYLNDRNCNGTMQDEPNWVSM TSPVVANYCGNILEKNGTHAIYRNTLSLATDFIIRDFRVN VNFQCAAYPLDMSVSLETALQPIVSSLTVDVDGAGEFNVKMA LFQDQSYTNPYEGA EVLLPVESILYVGVLLNR GDTSRFKLLLTNCYATPSEDRHDPVKYFIKNRCPNQRDSTINVRENGVSSSRFSVQMF MFAGNYDLVFLHC EVLCDSTTEQCQPSCSTNRLRSSRPAIDYNRVLDLGPITKRS AQSSATSKGTPHTTGFLAWPMFFLPVFLALL F

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:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

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

Functions as an intestinal M-cells transcytotic receptor specific of type-I-piliated bacteria that participate in the mucosal immune response toward these bacteria. At the apical membrane of M-cells binds fimH, a protein of the bacteria type I pilus tip. Internalizes bound bacteria, like E.coli and S.typhimurium, from the lumen of the intestine and delivers them, through M-cells, to the underlying organized lymphoid follicles where they are captured by antigen-presenting dendritic cells to ellicit a mucosal immune response.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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