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Recombinant Mouse Polymeric Immunoglobulin Receptor/PIGR Protein

Catalog No.: RP03555 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	18703	O70570

Tags
C-His

Synonyms
Pigr;Polymeric immunoglobulin receptor; PIgR; Poly-Ig receptor; Cleaved into: Secretory component

Product Information

Source	Purification
HEK293 Cells	> 97 % as determined by SDS-PAGE.

Calculated MW	Observed MW
70.8 kDa	90-100 kDa

Endotoxin
< 1.0 EU per μg of the protein as determined by the LAL method

Formulation
Lyophilized from sterile PBS, pH 7.4.Please contact us for any concerns or special requirements.Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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

☎ | 400-999-6126

Background

Polymeric immunoglobulin receptor, also known as PIGR, is a member of the immunoglobulin superfamily and a Fc receptor. The ectodomain of this receptor consists of five units with homology to the variable units of immunoglobulins and a transmembrane region, which also has some homology to certain immunoglobulin variable regions. PIGR is expressed on several glandular epithelia including those of liver and breast. The deduced amino-acid sequence has a length of 764 residues and shows an overall similarity of 56% and 64% with the rabbit and rat counterpart. PIGR mediates transcellular transport of polymeric immunoglobulin molecules, and thus facilitates the secretion of IgA and IgM. During this process, a cleavage occurs that separates the extracellular (known as the secretory component) from the transmembrane segment of PIGR.

Basic Information

Description
Recombinant Mouse Polymeric immunoglobulin receptor/PIGR Protein is produced by HEK293 cells system. The target protein is expressed with sequence (Met 1-Lys 645) of Mouse Polymeric immunoglobulin receptor/PIGR(Accession #NP_035212.2) fused with His at the C-Terminus.

Bio-Activity
Measured by its binding ability in a functional ELISA . Immobilized recombinant mouse PIGR at 5 μg/ml (100 μl/well) can bind mouse IgM with a linear range of 0.156-10 μg/ml .

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.

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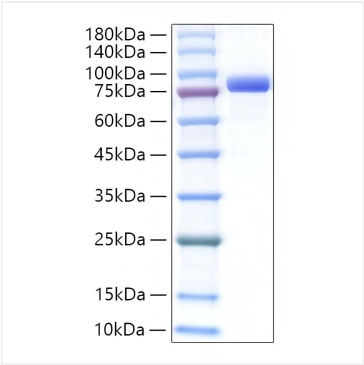
* 为了您的安全和健康，请穿实验服并戴一次性手套操作。

Validation Data



Recombinant Mouse Polymeric Immunoglobulin Receptor/PIGR Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.