

Recombinant Mouse PIGR Protein (His Tag)

Catalog Number:PKSM040856



Note: Centrifuge before opening to ensure complete recovery of vial contents.

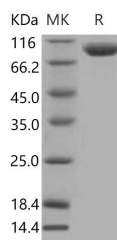
Description

Synonyms	Pigr
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met 1-Lys 645
Accession	NP_035212.2
Calculated Molecular Weight	70.8 kDa
Observed molecular weight	90-100 kDa
Tag	C-His
Bioactivity	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.

Properties

Purity	> 97 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

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

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this process, a cleavage occurs that separates the extracellular (known as the secretory component) from the transmembrane segment of PIGR.

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