Recombinant Human PIGR Protein (365 Ser/Gly, His Tag)

Catalog Number: PKSH031844

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

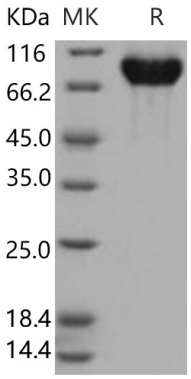
Description

Species	Human
Source	HEK293 Cells-derived Human PIGR protein Met 1-Arg 638, 365 Ser/Gly, with an C-terminal His
Calculated MW	69.0 kDa
Accession	NP_002635.2
Bio-activity	Immobilized rhhuman IgM at 2 μg/ml (100 μl/well) can bind biotinylated PIGR with a linear range of 0.94-15 ng/ml. 2. When human human IgM is immobilized at 2 μg/ml (100 μl/well), PIGR inhibits 50% binding of biotinylated PIGR (0.062 μg/ml) at the concentration range of 0.03-20 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% Tween 80 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 asPIGR, is a member of the immunoglobulin superfamilyand aFc 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 ofIgAandIgM. During this process, a cleavage occurs that separates the extracellular (known as the secretory component) from the transmembrane segment of PIGR.

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