Recombinant Cynomolgus CD38/ADP-ribosyl Cyclase 1 Protein (Fc Tag)

Catalog No. PKSQ050040

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

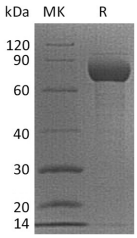
Description

Synonyms	ADP-ribosyl cyclase 1;cyclic ADP-ribose hydrolase;CD38;T10
Species	Cynomolgus macaques
Expression Host	HEK293 Cells
Sequence	Leu44-Ile301
Accession	Q5VAN0
Calculated Molecular Weight	57.0 kDa
Observed molecular weight	65-95 kDa
Tag	C-Fc
Bioactivity	Not validated for activity

Properties

Purity	> 95 % 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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 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



> 95 % as determined by reducing SDS-PAGE.

Background

CD38, also called ADP-ribosyl cyclase, is a Type II integral membrane protein with 301 amino acids in length that belongs to the ADP-ribosyl cyclase family.It synthesizes the second messagers cyclic ADP-ribose and nicotinate-adenine

dinucleotide phosphate, the former a second messenger for glucose-induced insulin secretion. And also moonlights as a receptor in cells of the immune system. CD38 is expressed in B and T lymphocytes, osteoclasts, and in cardiac, pancreatic, liver and kidney cells. Through its production of cyclic ADP-ribose, CD38 modulates calcium-mediated signal transduction in many types of cells, including neutrophils and pancreatic beta cells.

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