


Human CD38 protein, His tag (Animal-Free)

Cat #: PRP2027

Size: 10 µg/50 µg/100 µg/1 mg

Product Information

	Product Name: Human CD38 protein, His tag (Animal-Free)		
REF	Catalog Number: PRP2027	LOT	Lot Number:
	Purity: >95% as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: HEK 293 cells
	Shipping: The product is shipped at ambient temperature		

Background: CD38, also known as ADP-ribosyl cyclase, is a Type II integral membrane protein. The enzyme is able to transform NAD(P)⁺ into three different products with calcium mobilizing ability, cyclic ADP-ribose, NAADP⁺, and ADP-ribose. CD antigen CD38 is also known as ADP-ribosyl cyclase 1, which belongs to the ADP-ribosyl cyclase family. CD38 is expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma. CD38 is a multifunctional ectoenzyme that catalyzes the synthesis and hydrolysis of cyclic ADP-ribose (cADPR) from NAD⁺ to ADP-ribose. 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.

Sequence: Amino acid sequence derived from human CD38 (P28907) (Val 43-Ile 300) was expressed with a 6 His tag at the C-terminus.

Protein length: The recombinant human consists of 264 amino acids and predicts a molecular mass of 31 kDa. It migrates as an approximately 42-45 kDa band in SDS-PAGE under reducing conditions due to glycosylation.

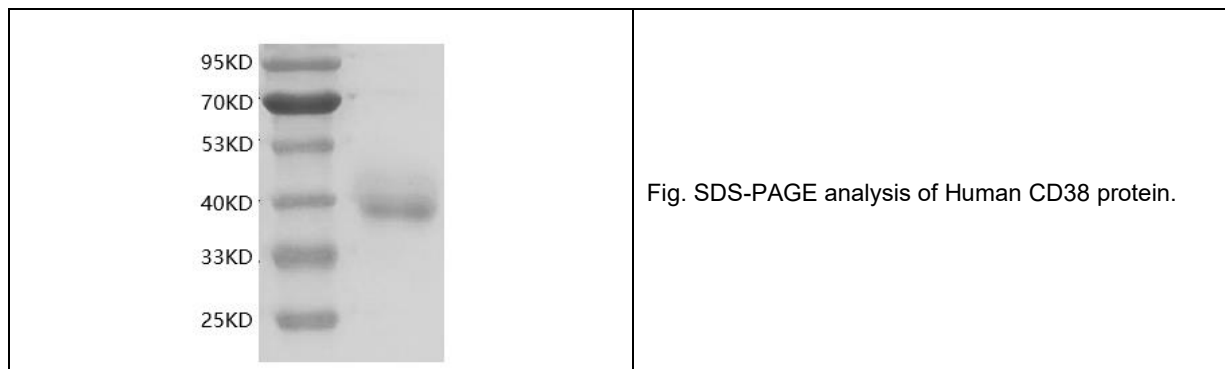
Biological Activity: Testing in progress.

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

Formulation: Lyophilized from sterile PBS, pH 7.4.

Storage Instructions: Lyophilized Human CD38 protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2 -7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human CD38 protein in sterile ddH₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.



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