
Product Data Sheet

Product Name: CD38 Human
 Cat. No.: GP23007
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	P28907; ADP-Ribosyl Cyclase 1;2-Phospho-Cyclic-ADP-Ribose Transferase; Cyclic ADP-Ribose Hydrolase;2-Phospho-ADP-Ribosyl Cyclase; NAD(+) Nucleosidase; CD38 Antigen (P45); ADPRC1; 2-Phospho-ADP-Ribosyl Cyclase/2-Phospho-Cyclic-ADP-Ribose Transferase;Ecto-Nicotinamide Adenine Dinucleotide Glycohydrolase ; Cluster Of Differentiation 38; CADPr Hydrolase 1;CD38 Antigen; EC 2.4.99.20; EC 3.2.2.6;ADPRC1; T10.		
Amino Acid Sequence	ADPEFVPRWRQQWSGPGTK RFPETVLARC VKYTEIHPEM RHVDCQSVWD AFKGAFISKH PCNITEEDYQ PLMKLGTQTVPCNKILLWSR IKDLAHQFTQ VQRDMFTLED TLLGYLADDL TWCGEFNTSK INYQSCPDWR KDCSNNPVSFVWKTVSRRFA EAACDVVHVM LNGRSKIFD KNSTFGSVEV HNLQPEKVQT LEAWVIHGGR EDSRDLCQDPTIKELESIIS KRNIQFSCKN IYRPDKFLQC VKNPEDSSCT SEIHSHHHH.		
Formulation	CD38protein solution (1mg/ml) contains 100mM NaCl and 10% glycerol.		

Introduction

CD38 is a surface molecule which acts as a plasma membrane signaling receptor in leukocytes. Furthermore, CD38 functions as a signaling channel which leads to cellular activation and proliferation. CD38 also plays a role as an ectoenzyme with various functions as well as an inducer of Ca²⁺ mobilization from cytoplasmic stores. CD38 signals acts as a coreceptor on B cells and modulates B cell receptor.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CD38 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 269 amino acids (43-300 a.a.) and having a molecular mass of 31.2kDa (Migrates at 28-40kDa on SDS-PAGE under reducing conditions).

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