

Recombinant Human CD38 protein, His-tagged

Cat. No. CD38-59H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human CD38, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Species Human

Source Insect Cells

Description CD38, also known as ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1, is a surface molecule which has been attributed the function of a signaling channel leading to cellular activation and proliferation, an ectoenzyme with multiple function as well as an inducer of Ca²⁺ mobilization from cytoplasmic stores. It also functions as a plasma membrane signaling receptor in leukocytes. On B cells, It acts as a coreceptor and modulates B cell receptor (BCR) signals.

Form Liquid. In 50mM MES (pH 5.0) containing 100mM NaCl, 10% glycerol.

Molecular Mass 31.2kDa (269aa)28-40KDa (SDS-PAGE under reducing conditions.)

AA Sequence
 ADPEFVPRWR QQWSGPGTTK RFPETVLARC VKYTEIHPEM RHVDCQSVWD
 AFKGAFISKH PCNITEEDYQ PLMKLGTQTV PCNKILLWSRIKDLAQFTQ
 VQRDMFTLED TLLGYLADDL TWCGEFNTSK INYQSCP DWR KDCSNNPVSV
 FWKTVSRRFA EAACDVVHVM LNGSRSKIFDKNSTFGSVEV HNLQPEKVQT
 LEAWVIHGGR EDSRDLCQDP TIKELESIIS KRNIQFSCKN IYRPDKFLQC
 VKNPEDSSCT SEIHSHHHHH

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Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name	CD38 CD38 molecule [Homo sapiens]
Official Symbol	CD38
Synonyms	CD38; CD38 molecule; ADP-ribosyl cyclase 1; ADP ribosyl cyclase 1
Gene ID	952
mRNA Refseq	NM_001775
Protein Refseq	NP_001766
MIM	107270
UniProt ID	P28907
Chromosome Location	4p15.32
Pathway	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway,

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conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Metabolic pathways, organism-specific biosystem; Nicotinate and nicotinamide metabolism, organism-specific biosystem; Nicotinate and nicotinamide metabolism, conserved biosystem;

Function

NAD+ nucleosidase activity; hydrolase activity, acting on glycosyl bonds; nucleotide binding; phosphorus-oxygen lyase activity; receptor activity;

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