

Recombinant Human CD38 Protein

Catalog No	RP00151	Category	
Description	Recombinant Human CD38 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val43-Ile300) of human CD38 (Accession #NP_001766.2) fused with a 6×His tag at the C-terminus.		

Sequence Information

Species	Human	Gene ID	952
Tags	6×His tag at the C-terminus	Swiss Prot	P28907
Synonyms	ADPRC 1;ADPRC1;T10		
AA Sequence	VPRWRQQWSGPGTTRKRFPETVLARCVKYTEIHPEMRHVDCQSVWDAFKGAFISKHPCNIT EEDYQPLMKLGTQTPCNKILLWSRIKDLAHQFTQVQRDMFTLEDTLGLYLADDLTWCGE FNTSKINYQSCPDWRKDCSNNPVSVFWKTVSRRFAEAACDVVHVMLNGSRSKIFDKNSTF GSVEVHNLQPEKVQLEAWVIHGGREDSRDLCDPTIKELESIIKSRNIQFSCKNIYRPD KFLQCVKNPEDSSCTSEI		

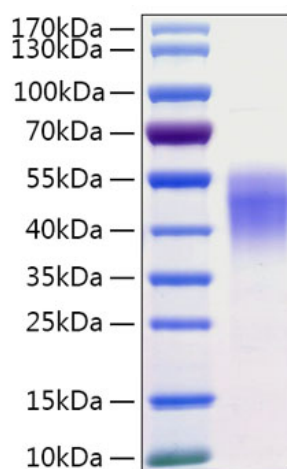
Product information

Source	HEK293 cells
Purity	> 95% by SDS-PAGE.
Endotoxin	< 0.1 EU/μg of the protein by LAL method.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

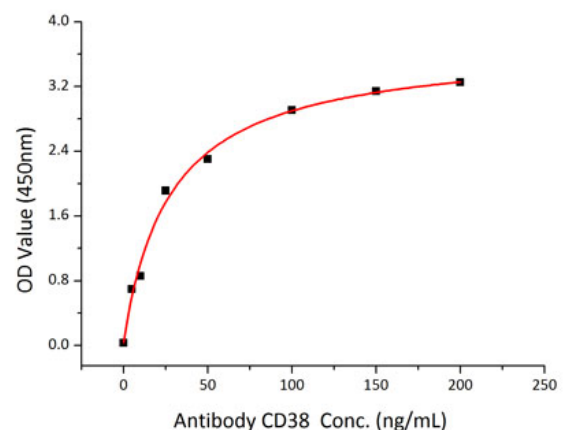
Background

The protein is a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Crystal structure analysis demonstrates that the functional molecule is a dimer, with the central portion containing the catalytic site. It is used as a prognostic marker for patients with chronic lymphocytic leukemia.

Validated Data



Recombinant Human CD38 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 47 kDa.



Immobilized recombinant human CD38 at 0.5 μg/mL (100 μL/well) can bind CD38 antibody with a linear range of 2-10 ng/mL.