

Active Recombinant Human ICAM1 Protein (28-480aa), C-hlgG-His-tagged

Cat. No. ICAM1-14H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human ICAM-1/CD54 (28-480aa), fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Species Human

Source Insect Cells

ProteinLength 28-480 aa

Description ICAM-1/CD54, also known as intercellular adhesion molecule 1, is a member of the immunoglobulin superfamily. Its expression is weak on leukocytes, epithelial and resting endothelial cells, as well as some other cell types, but expression can be stimulated by IFNG, TNF α , IL-1 β and LPS. They are important in inflammation, immune responses and in intracellular signalling events. It is known to bind to leucocyte integrins CD11/CD18 such as LFA-1 and Macrophage-1 antigen, during inflammation and in immune responses. It has been implicated in subarachnoid hemorrhage and expressed by respiratory epithelial cells is also the binding site for rhinovirus, the causative agent of most common colds.

Form Liquid

Bio-activity Measured by the ability of the immobilized protein to support the adhesion of HL-60 human promyelocytic cells. When cells are added to Human ICAM-1/CD54 coated

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	plates, the ED50 range $\leq 2 \mu\text{g/mL}$.
Molecular Mass	76.5 kDa (692 aa)
AA Sequence	<p>QTSVSPSKVILPRGGSVLVTCSSTCDQPKLLGIETPLPKKELLPGNNRKVYELSNVQ EDSQPMCYSNCPDGQSTAKTFLTVYWTPERVELAPLPSWQPVGKNLTLRCQVEGG APRANLTVLLRGEKELKREPAVGEPAEVTTTTLVRRDHHGANFSCRTELDLRPQG LELFENTSAPYQLQTFVLPATPPQLVSPRVLEVDTQGTVVCSLDGLFPVSEAQVHLA LGDQRLNPTVITYGNSFSASASVSVTAEDEGTQRLTCAVILGNQSQETLQVTIYSF PAPNVILTKPEVSEGTEVTVKCEAHPRAKVTLNGVPAQPLGPRAQLLLKATPEDNGR SFSCSATLEVAGQLIHKNQTRRLRVLYGPRLDERDCPGNWTWPENSQQTPMCQA WGNPLPELKCLKDGTFFPLPIGESVTVTRDLEGTYLCRARSTQGEVTREVTNVLSPR YE</p>
Endotoxin	< 1 EU/ μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by Bradford assay)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

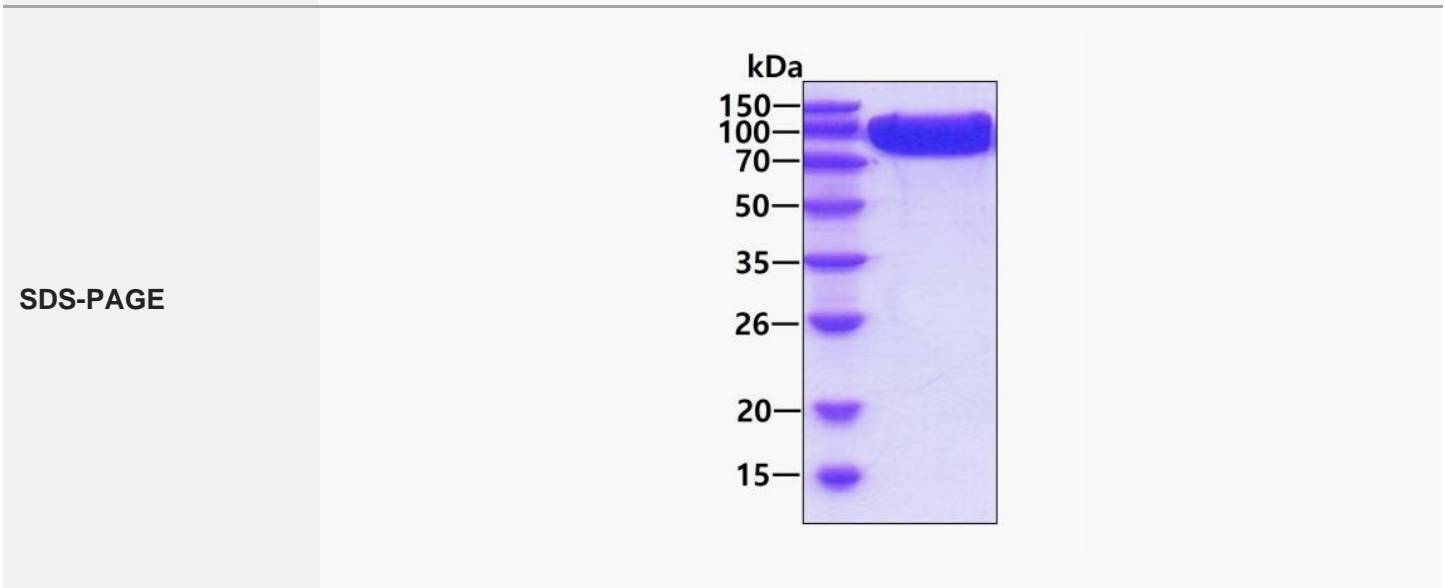
GENE INFORMATION

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Gene Name	ICAM1 intercellular adhesion molecule 1 [Homo sapiens (human)]
Official Symbol	ICAM1
Synonyms	ICAM1; intercellular adhesion molecule 1; BB2; CD54; human rhinovirus receptor; ICAM-1; cell surface glycoprotein P3.58; major group rhinovirus receptor; intercellular adhesion molecule 1 (CD54), human rhinovirus receptor; P3.58
Gene ID	3383
mRNA Refseq	NM_000201
Protein Refseq	NP_000192
MIM	147840
UniProt ID	P05362



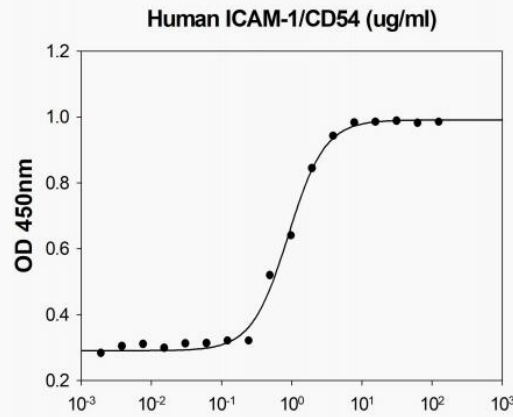
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3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity



Human ICAM-1/CD54 stimulates cell adhesion of the HL-60 human promyelocytic cells. The ED50 range \leq 2 μ g/mL.

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