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Recombinant mouse ICAM-1/CD54 protein

Catalog Number: ATGP4119

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
28-485aa

UniProt No.
P13597

NCBI Accession No.
NP_034623.1

Alternative Names
ICAM1, CD54, Icam-1, Ly-47, MALA-2, Intercellular adhesion molecule 1, MyD10

PRODUCT SPECIFICATION

Molecular Weight
51.2 kDa (466aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Measured by the ability of the immobilized protein to support the adhesion of HSB2 human peripheral blood acute lymphoblastic leukemia cells. When cells are added to ICAM-1/CD54 coated plates 5ug/ml. This effect is more to 60%.

Tag
His-Tag

Application
SDS-PAGE, Bioactivity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

ICAM-1, also known as CD54 (Cluster of Differentiation 54), belongs to the ICAM proteins. This protein is ligand for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2). When activated, leukocytes bind to endothelial cells via ICAM-1/LFA-1 and then transmigrate into tissues. During leukocyte trans-endothelial migration, ICAM-1 engagement promotes the assembly of endothelial apical cups through ARHGEF26/SGEF and RHOG activation. It is constitutively present on endothelial cells, but its expression is increased by proinflammatory cytokines. Also, It has been implicated in the progression of autoimmune diseases. Recombinant mouse ICAM1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

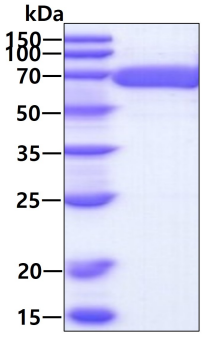
QVSIHPREAF LPQGGSVQVN CSSSCKEDLS LGLETQWLKD ELESGPNWKL FELSEIGEDS SPLCFENCGT VQSSASATIT VYSFPESVEL RPLPAWQQVG KDLTLRCHVD GGAPRTQLSA VLLRGEEILS RQPVGGHPKD PKEITFTVLA SRGDHGANFS CRTELDLRPQ GLALFSNVSE ARSLRTFDLP ATIPKLDTPD LLEVGTQQKL FCSLEGLFPA SEARIYLELG GQMPTQESTN SSDSVSATAL VEVTEEFDRT LPLRCVLELA DQILETQRTL TVYNFSAPVL TLSQLEVSEG SQVTVKCEAH SGSKVVLLSG VEPRPPTPQV QFTLNASSED HKRSFFCSAA LEVAGKFLFK NQTLELHVLY GPRLDETDCL GNWTWQEGSQ QTLKCQAWGN PSPKMTCRRK ADGALLPIGV VKSVKQEMNG TYVCHAFSSH GNVTRNVYLT VLYHSQNN<VE HHHHHH>

General References

Siu G., et al. (1989) J. Immunol. 143:3813-3820.
Lord K. A., et al. (1990) Oncogene 5:387-396.

DATA

SDS-PAGE



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