9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

ICAM1 Human HEK

Intercellular Adhesion Molecule-1 Human Recombinant HEK
RCP1098

Product Overview

Name	ICAM1 Human HEK

Description

Intercellular Adhesion Molecule-1 Human Recombinant HEK

Accession (Primary)	P05362

Synonyms

Intercellular adhesion molecule 1, ICAM-1, Major group rhinovirus receptor, CD54 antigen, ICAM1, BB2, CD54, P3.58.

Introduction

ICAM-1 also called CD54 is a single chain membrane glycoprotein expressed on the surface of a variety of non-haematopoietic and haematopoietic cell types and has roles in signal transduction, cell signaling and lymphocyte adhesion. ICAM1 binds to integrins such as CD11a / CD18, or CD11b / CD18. ICAM1 is also used by Rhinovirus as a receptor. ICAM-1 is an intercellular adhesion molecule constantly present in low concentrations in the membranes of leukocytes and endothelial cells. When stimulated by cytokine the concentrations significantly increase. ICAM-1 can be stimulated by interleukin-1 (IL-1) and tumor necrosis factor alpha (TNFA) and is expressed by the vascular endothelium, macrophages and lymphocytes. ICAM-1 is a ligand for LFA-1 which is a receptor found on leukocytes. Upon activation, leukocytes bind to endothelial cells via ICAM-1/LFA-1 and then transmigrate into tissues. ICAM-1 is implicated in subarachnoid hemorrhage (SAH). Levels of ICAM-1 are shown to be notably elevated in patients with SAH. Soluble ICAM-1 is detectable in the plasma and is elevated in patients with various inflammatory conditions.

Source

HEK293 cells.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

ICAM1 was lyophilized from a 0.2 μM filtered solution of 20mM PB and 150mM NaCl, pH 7.2.

Stability

Lyophilized ICAM1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution ICAM1 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

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Greater than 95% as determined by SDS-PAGE.

Amino acid sequence

QTSVSPSKVILPRGGSVLVTCSTSCDQPKLLGIETPLPKKELLLPGNNRKVYELSNVQE
DSQPMCYSNCPDGQSTAKTFLTVYWTPERVELAPLPSWQPVGKNLTLRCQVEGGAPRANL
TVVLLRGEKELKREPAVGEPAEVTTTVLVRRDHHGANFSCRTELDLRPQGLELFENTSAP
YQLQTFVLPATPPQLVSPRVLEVDTQGTVVCSLDGLFPVSEAQVHLALGDQRLNPTVTYGN
DSFSAKASVSVTAEDEGTQRLTCAVILGNQSQETLQTVTIYSFPAPNVILTKPEVSEGTEV
TVKCEAHPRAKVTLNGVPAQPLGPRAQLLLKATPEDNGRSFSCSATLEVAGQLIHKNQTRELR
VLYGPRLDERDCPGNWTWPENSQQTPMCQAWGNPLPELKCLKDGTFPLPIGESVTVTRDLEGTYL
CRARSTQGEVTRKVTVNVLSPRYE VDHHHHHH.

Solubility

It is recommended to reconstitute the lyophilized ICAM1 in 1xPBS to a concentration no less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

ICAM1 Human HEK is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P05362)