



Product Datasheet

Product Name	Intercellular Adhesion Molecule-1 Human Recombinant
Cata No	CB501004
Source	<i>Escherichia Coli.</i>
Synonyms	Intercellular adhesion molecule 1, ICAM-1, Major group rhinovirus receptor, CD54 antigen, ICAM1, BB2, CD54, P3.58.

Description

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 (TNF α) 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.

ICAM-1 Human Recombinant is expressed in *E. coli* containing 455 amino acids 28-483 fused to an amino terminal hexahistidine tag.

The ICAM-1 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Purity

Greater than 95% as determined by SDS-PAGE.

Formulation

ICAM-1 is supplied (0.2mg/ml) in PBS, 50% Glycerol, 2mM Imidazole.

Applications

ICAM-I can be used directly as a positive control in Western blotting, ELISA, immunoprecipitation and other immunological experiments.

The biological activity of this product has not yet been tested