

## 32-4001: ICAM1 HEK Recombinant Protein

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

### Description

Source : HEK293 cells. ICAM1 Human Recombinant produced by mammalian expression system in human cells is a single polypeptide chain containing 461 amino acids (28-480). ICAM1 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques. 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.

### Product Info

<b>Amount :</b>	50 µg
<b>Purification :</b>	Greater than 95% as determined by SDS-PAGE.
<b>Content :</b>	ICAM1 was lyophilized from a 0.2 mM filtered solution of 20mM PB and 150mM NaCl, pH 7.2.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	TTPQTSVSPSKVILPRGGSVLVTCSTSCDQPKLLGIETPLPKKELLPGNNRKVYELSNVQEDSQPMCYSNCPDG QSTAKTFLTVYWTPERVELAPLPSWQPVGKNLTLRCQVEGGAPRANLTVLLRGEKELKREPAVGEPAEVTTTV LVRRDHHGANFSCRTDLRPQGLELFENTSAPYQLQTFVLPTPPQLVSPRVLEVDTQGTVCSLDGLFPVSE AQVHLALGDQRLNPTVTYGNDSFSAKASVSVTAEDGTQRLTCAVILGNQSQETLQTVTIYSFPAPNVILTKPEV SEGTEVTVKCEAHPRAKVTLNGVPAQPLGPRAQLLLKATPEDNGRSFSCSATLEVAGQLIHKNQTRRLRVLYGP RLDERDCPGNWTWPENSQQTPMCQAWGNPLPELCKLDGTFPLPIGESVTVTRDLEGTYLCRARSTQGEVTR KVTNVLSPRYEVDDHHHHHH.

### Application Note

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.

