

Product Data Sheet

Product Name: ICAM1 Human HEK
 Cat. No.: GP23684
 Batch No.: 1

Product Data

Purity >98% Source
 Physical Appearance solid Shipping Condition

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

Amino Acid Sequence QTSVSPSKVILPRGGSVLVTCTSCDQPKLLGIETPLPKKELLPGNNRKYELSNVQEDSQPMCYSNCPDGQSTAKTFLTVYWTPERVELAPLPSWQPVI

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

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.

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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