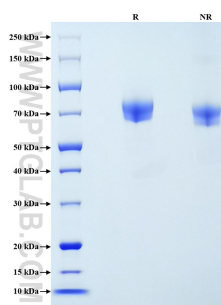


Recombinant Rat ICAM-1/CD54 protein (His Tag)

Catalog Number: Eg1025

Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/ µg protein, LAL method</p> <p>Source: HEK293-derived Rat ICAM-1 protein Gln28-Thr493 (Accession# Q00238) with a His tag at the C-terminus.</p> <p>GeneID: 25464</p> <p>Accession: Q00238</p> <p>Predicted Molecular Mass: 52.5 kDa</p> <p>SDS-PAGE: 65-85 kDa, reducing (R) conditions</p> <p>Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	ICAM-1 (CD54) is a transmembrane glycoprotein of the immunoglobulin superfamily and is critical for the firm attachment and transmigration of leukocytes out of blood vessels and into tissues. ICAM-1 is expressed by several cell types, typically on endothelial cells and cells of the immune system, and its expression can be up-regulated by various stimuli, including TNF-α, INF-γ, IL-1 and thrombin. It is a ligand for LFA-1 and Mac-1, serves as a receptor for rhinovirus, and is one of several receptors used by Plasmodium falciparum.		
References	<ol style="list-style-type: none">1. M L Dustin, et al. (1986) J Immunol. 137(1):245-54.2. C W Smith, et al. (1989) J Clin Invest. 83(6):2008-17.3. D E Staunton, et al. (1989) Cell. 56(5):849-53.4. A R Berendt, et al. (1989) Nature. 341(6237):57-9.5. G Kaplanski, et al. (1998) Blood. 92(4):1259-67.6. Narimasa Miho, et al. (2005) Cardiovasc Res. 68(2):289-98.7. Charlotte Lawson, et al. (2009) Pharmacol Rep. 61(1):22-32.		
Synonyms	CD54, ICAM-1, Icam1		

Selected Validation Data



Purity of Recombinant Rat ICAM-1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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