

Recombinant Mouse ICAM-1/CD54 Fc Chimera

Catalog Number: 796-IC

DESCRIPTION				
Source	Mouse myeloma cell line, NS0-derived mouse ICAM-1/CD54 protein			
	Mouse ICAM-1 (Gln28-Asn485) Accession # Q3U8M7	IEGRMD	Human IgG ₁ (Pro100-Lys330)	
	N-terminus		C-terminus	
N-terminal Sequence Analysis	Gin28			
Structure / Form	Disulfide-linked homodimer			
Predicted Molecular Mass	76.8 kDa (monomer)			

SPECIFICATIONS		
SDS-PAGE	110-130 kDa, reducing conditions	
Activity	Measured by the ability of the immobilized protein to support the adhesion of PMA-stimulated HSB2 human peripheral blood acute lymphoblastic leukemia cells.	
	When 5 x 10 ⁴ cells/well are added to rmICAM/Fc Chimera coated plates (12.5 µg/mL with 100 µL/well), approximately 65-95% will adhere after 1 hour incubation at 37 °C.	
	Optimal dilutions should be determined by each laboratory for each application.	
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.	
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.	

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.4 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	 12 months from date of receipt, -20 to -70 °C as supplied. 	
	1 month, 2 to 8 °C under sterile conditions after reconstitution.	
	 3 months, -20 to -70 °C under sterile conditions after reconstitution. 	

BACKGROUND

Intercellular Adhesion Molecule-1 (ICAM-1, CD54) binds the leukocyte integrins LFA-1 and Mac-1. ICAM-1 expression is weak on leukocytes, epithelial and resting endothelial cells, as well as some other cell types, but expression can be stimulated by IFN-γ, TNF-α, IL-1β and LPS. Mouse and human ICAM-1 share approximately 54% amino acid identity.

Soluble ICAM-1 is found in a biologically active form in serum, probably as a result of proteolytic cleavage from the cell surface, and is elevated in patients with various inflammatory syndromes such as septic shock, leukocyte adhesion deficiency syndrome (LAD), cancer and transplantation.

References:

- 1. Pigott, R. and C. Power (1993) in The Adhesion Molecule Facts Book. Academic Press, p. 74.
- 2. Siu, G. et al. (1989) J. Immunol. 143:3813.
- 3. Ballantyne, C.M. et al. (1989) Nuc. Acid. Res. 17:5853.

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