

Recombinant Human ICAM-3/CD50 Protein

Catalog No.: RP00979 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3385	P32942

Tags

C-hFc&His

Synonyms

ICAM3;CD50;CDW50;ICAM-R;ICAM3 / CD50

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
76.24 kDa	110-130 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

This protein is a member of the intercellular adhesion molecule (ICAM) family. All ICAM proteins are type I transmembrane glycoproteins, contain 2-9 immunoglobulin-like C2-type domains, and bind to the leukocyte adhesion LFA-1 protein. This protein is constitutively and abundantly expressed by all leucocytes and may be the most important ligand for LFA-1 in the initiation of the immune response. It functions not only as an adhesion molecule, but also as a potent signalling molecule.

Basic Information

Description

Recombinant Human ICAM-3/CD50 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln30-His485) of human CD50 (Accession #NP_002153.2) fused with an Fc, 6×His tag at the C-terminus.

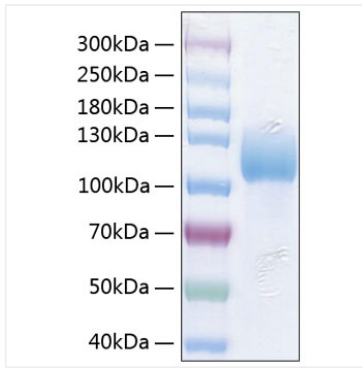
Bio-Activity

Measured by the ability of the immobilized protein to support the adhesion of THP-1 cells. When cells are added to ICAM-3 coated plates (12.5 μg/mL, 100 μL/well), approximately >50% cells will adhere specifically after 60 minutes at 37 °C.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human ICAM-3/CD50 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 110-130 kDa.