Recombinant Human LFA-3/CD58 Protein (Fc Tag)

Catalog Number: PKSH030847

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

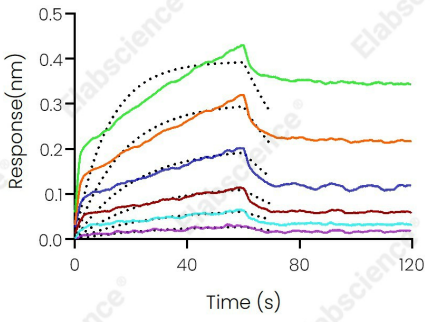
Description

Species	Human
Source	HEK293 Cells-derived Human LFA-3/CD58 protein Met 1-Arg215, with an C-terminal hFc
Calculated MW	48.5 kDa
Observed MW	68 kDa
Accession	Q9BRW0
Bio-activity	1. Immobilized human CD2-His at 10 μg/ml (100 μl/well) can bind human CD58-Fc, The EC_{50} of human CD58-Fc is 0.04-0.1 μg/ml. 2. Immobilized Cynomolgus CD2-His at 10 μg/ml (100 μl/well) can bind human CD58-Fc, The EC_{50} of human CD58-Fc is 0.04-0.10 μg/ml.

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



Loaded Recombinant Human CD58/LFA-3 Protein, hFc Tag (Cat: PKSH030847) on ProA Biosensor, can bind Recombinant Human CD2 Protein, His Tag (Cat: PKSH031320) with an affinity constant of 1.36 μM as determined in BLI assay (Sartorius Octet RED384).

Background

CD53 is a member of the transmembrane 4 superfamily, also called the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. These proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. CD53 is a cell surface glycoprotein that is known to complex with integrins. Familial deficiency of CD53 gene has been linked to an immunodeficiency associated with recurrent infectious diseases caused by bacteria, fungi and viruses. CD53 contributes to the transduction of CD2-generated signals in T cells and natural killer cells and has been suggested to play a role in growth regulation.

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