Human EDIL3 Protein, Fc Tag

Catalog # ED3-H5259

Synonym

DEL1,EDIL3

Source

Human EDIL3, Fc Tag(ED3-H5259) is expressed from human 293 cells (HEK293). It contains AA Asp 24 - Glu 480 (Accession # O43854-1).
Predicted N-terminus: Asp 24

Molecular Characterization

EDIL3(Asp 24 - Glu 480) O43854-1	Fc(Pro 100 - Lys 330) P01857

This protein carries a human IgG1 Fc tag at the C-terminus

The protein has a calculated MW of 77.8 kDa. The protein migrates as 80-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

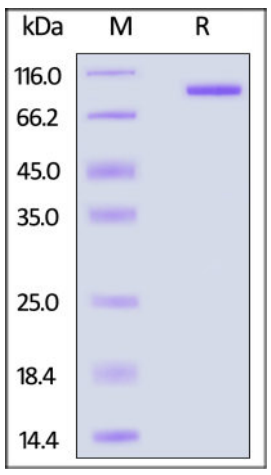
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

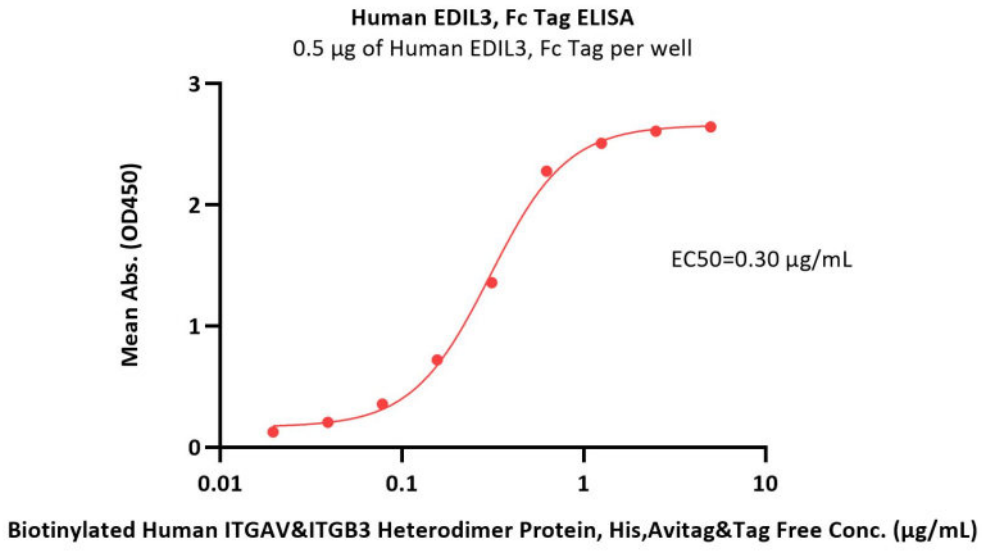
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

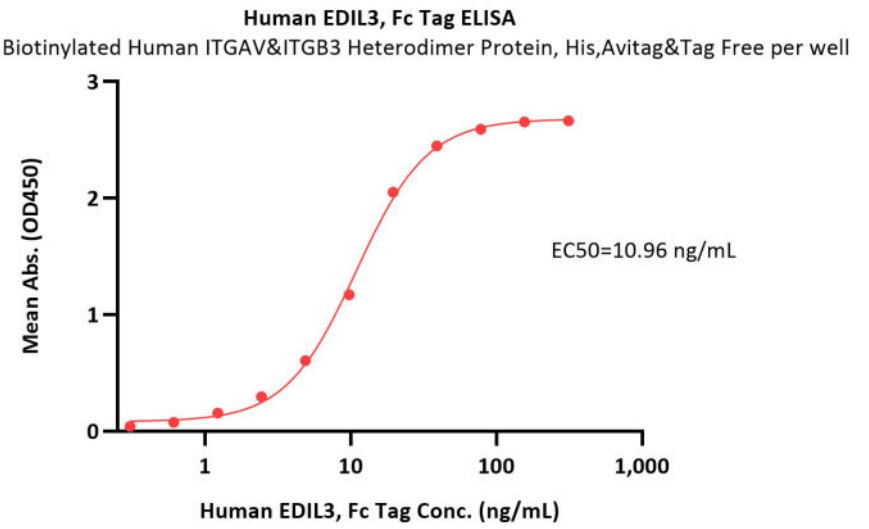


Human EDIL3, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

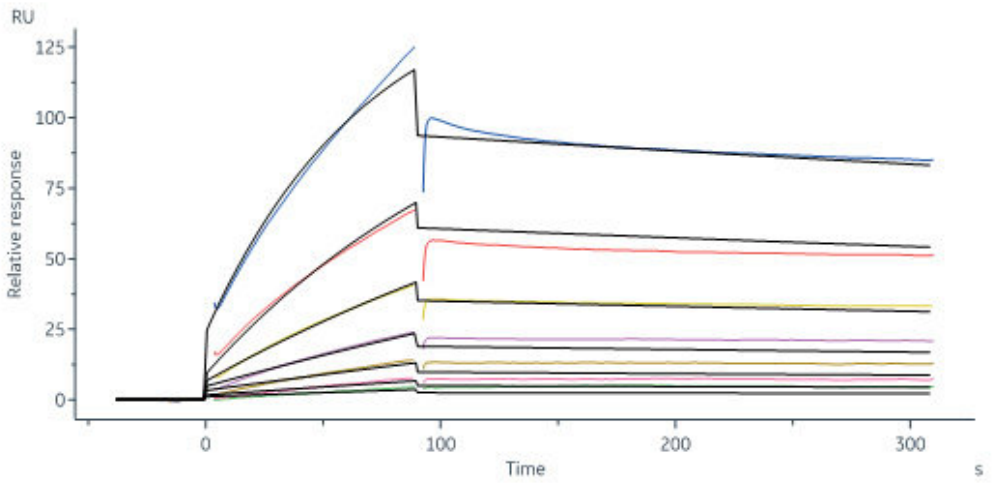


Immobilized Human EDIL3, Fc Tag (Cat. No. ED3-H5259) at 5 μg/mL (100 μL/well) can bind Biotinylated Human ITGAV&ITGB3 Heterodimer Protein, His,Avitag&Tag Free (Cat. No. IT3-H82W9) with a linear range of 0.02-0.625 μg/mL (QC tested).



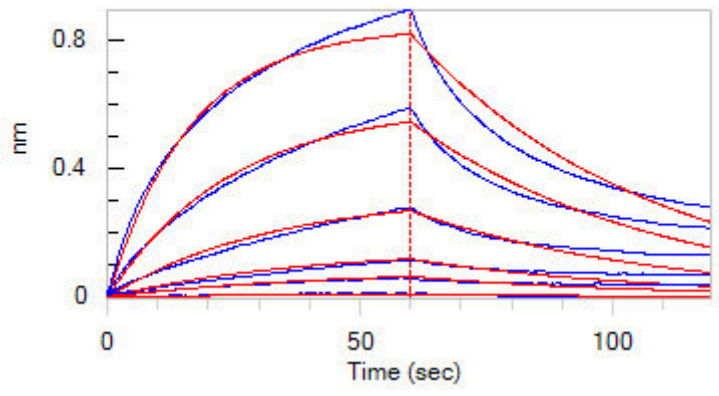
Immobilized Biotinylated Human ITGAV&ITGB3 Heterodimer Protein, His,Avitag&Tag Free (Cat. No. IT3-H82W9) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Human EDIL3, Fc Tag (Cat. No. ED3-H5259) with a linear range of 0.3-39 ng/mL (Routinely tested).

Bioactivity-SPR



Human EDIL3, Fc Tag (Cat. No. ED3-H5259) immobilized on CM5 Chip can bind Human ITGAV&ITGB3 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT3-H52E3) with an affinity constant of 38.9 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Bioactivity-BLI



Loaded Human EDIL3, Fc Tag (Cat. No. ED3-H5259) on Protein A Biosensor, can bind Human ITGAV&ITGB3 Heterodimer Protein, His Tag&Tag Free

(Cat. No. IT3-H52E3) with an affinity constant of 533 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

EDIL3， also known as Del1, is a novel extracellular matrix protein encoding three Notch-like epidermal growth factor repeats, an RGD motif, and two discoidin domains. EDIL3 is expressed in an endothelial cell-restricted pattern during early development. EDIL3 might involves autocrine angiogenic pathway for the embryonic endothelium, and this function is mediated in part by productive ligation of integrin alpha V beta 3. Overall, EDIL3 plays an important role in mediating angiogenesis and may be important in vessel wall remodeling and development. Moreover, It also influences endothelial cell behavior.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.