Recombinant Human TACTILE/CD96 Protein

Catalog No.: RP00345

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Sequence Information

Species
Human

Gene ID
10225

Swiss Prot
P40200-2

Tags
C-His

Synonyms
CD96 molecule; CD96; DKFZp667E2122; TACTILE

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
54.7 kDa

Observed MW
115-130 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The receptors CD96 and TIGIT are expressed on the surface of T and natural killer (NK) cells, and recent studies suggest both play important inhibitory roles in immune function. CD96 has been shown to modulate immune cell activity in mice, with Cd96-/- mice displaying hypersensitive NK-cell responses to immune challenge and significant tumor resistance. The counterbalance between the putative inhibitory CD96 and TIGIT receptors and the activating receptor, CD226, offers unique strategies for immuno-oncology drug development.

Basic Information

Description
Recombinant Human TACTILE/CD96 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val22-Met503) of Human TACTILE/CD96 (Accession #P40200-2) fused with a C-His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

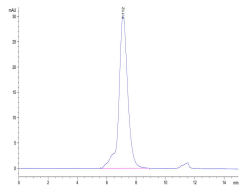
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

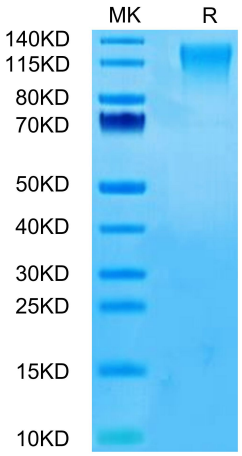
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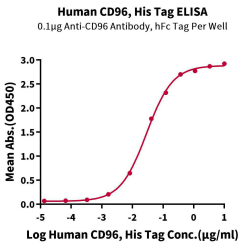
Validation Data



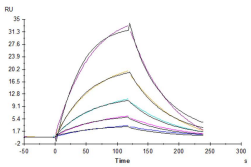
The purity of Human CD96 is greater than 95% as determined by SEC-HPLC.



Recombinant Human TACTILE/CD96 Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Anti-CD96 Antibody, hFc Tag at 1 μg/mL (100 μL/well) on the plate. Dose response curve for Human CD96, His Tag with the EC_{50} of 28.8ng/mL determined by ELISA (QC Test).



Human CD155, hFc Tag captured on CM5 Chip via Protein A can bind Human CD96, His Tag with an affinity constant of 0.958 μM as determined in SPR assay (Biacore T200).