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Recombinant Human B7-H7/HHLA2 Protein

Catalog No.: RP02675 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	11148	Q9UM44-1

Tags
C-His

Synonyms
B7H7; B7-H7; HHLA2; B7 Homolog 7

Product Information

Source	Purification
HEK293 cells	> 95% as determined by Tris-Bis PAGE> 95% as determined by HPLC

Calculated MW	Observed MW
38.1 kDa	50-70 kDa

Endotoxin
Less than 1EU per μg by the LAL method.

Formulation

Reconstitution
Centrifuge the tube 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.

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Background

B7-H7, also known as HHLA2 (HERV-H LTR-associating 2), is a member of the B7 family of immune regulatory proteins.Through interaction with TMIGD2, costimulates T-cells in the context of TCR-mediated activation. Enhances T-cell proliferation and cytokine production via an AKT-dependent signaling cascade.

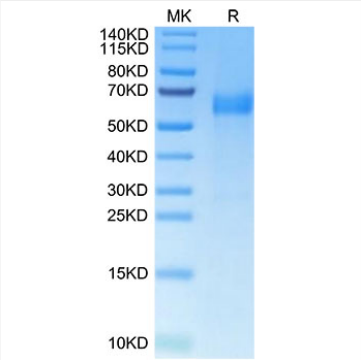
Basic Information

Description
Recombinant Human B7-H7/HHLA2 Protein is expressed from Expi293 with His tag at the C-terminal.It contains Ile23-Asn344.

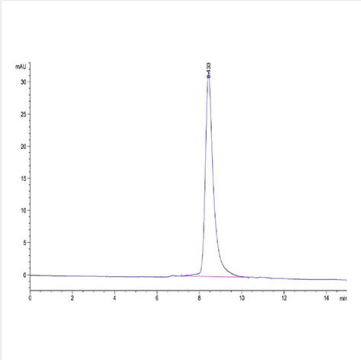
Bio-Activity

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

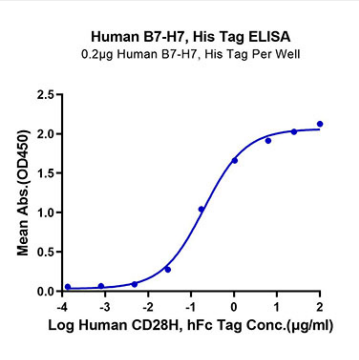
Validation Data



Human B7-H7 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human B7-H7 is greater than 95% as determined by SEC-HPLC.



Immobilized Human B7-H7, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Human CD28H, hFc Tag with the EC_{50} of 0.20μg/ml determined by ELISA.