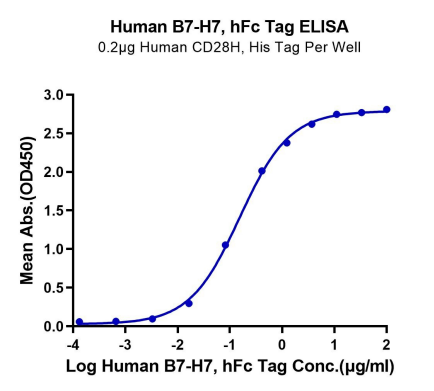
Bioactive HuPro®

HHLA2 (Human) Recombinant Protein

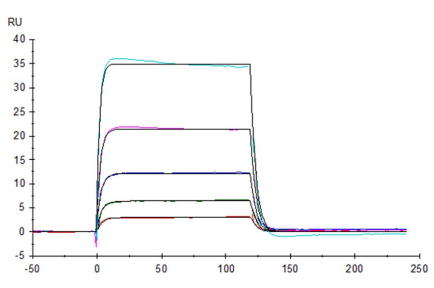
Catalog # P9945 Size 100 ug

Applications



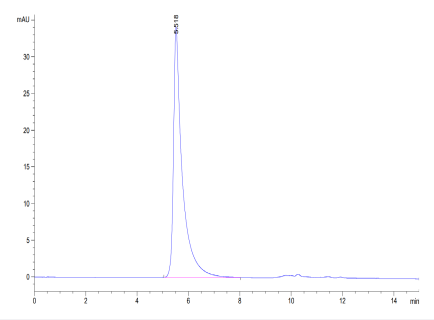
Enzyme-linked Immunoabsorbent Assay

Immobilized Human CD28H, His Tag at 2 ug/mL (100 uL/well) on the plate. Dose response curve for Human B7-H7, hFc Tag with the EC50 of 52.7 ng/mL determined by ELISA (QC Test).



Surface Plasmon Resonance

Human B7-H7, hFc Tag captured on CM5 Chip via Protein A can bind Human KIR3DL3, His Tag with an affinity constant of 334 nM as determined in SPR assay (Biacore T200).



SEC-HPLC

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

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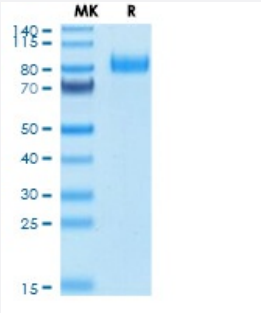

Tris-Bis PAGE

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

Specification

Product Description	Human HHLA2 (Q9UM44-1, Ile23-Asn344) partial recombinant protein with hFc tag at C-terminus expressed in HEK293 cells.
Sequence	Ile23-Asn344
Host	Human
Theoretical MW (kDa)	63.7
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 94% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 52.7 ng/mL, messured by ELISA at 2 ug/mL. The affinity constant of 334 nM as determined in SPR assay (Biacore T200).
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human B7-H7 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human B7-H7 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE SPR The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

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Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human CD28H, His Tag at 2 ug/mL (100 uL/well) on the plate. Dose response curve for Human B7-H7, hFc Tag with the EC50 of 52.7 ng/mL determined by ELISA (QC Test).
- SDS-PAGE
- Surface Plasmon Resonance

  Human B7-H7, hFc Tag captured on CM5 Chip via Protein A can bind Human KIR3DL3, His Tag with an affinity constant of 334 nM as determined in SPR assay (Biacore T200).

Gene Info — HHLA2

Entrez GeneID	11148
Protein Accession#	Q9UM44-1
Gene Name	HHLA2
Gene Alias	-
Gene Description	HERV-H LTR-associating 2
Omim ID	604371
Gene Ontology	Hyperlink
Other Designations	-

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