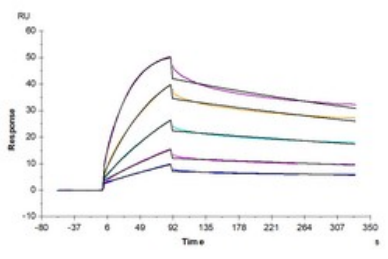
Bioactive HuPro®

RAET1E (Human) Recombinant Protein

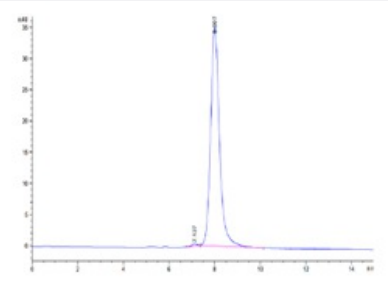
Catalog # P9709 Size 100 ug

Applications



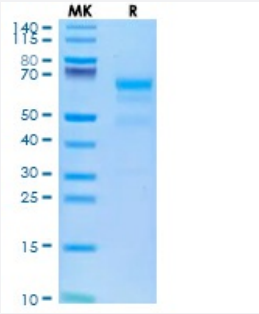
Surface Plasmon Resonance

Human ULBP-4, hFc Tag captured on CM5 Chip via Protein A can bind Human NKG2D, His Tag with an affinity constant of 0.17 uM as determined in SPR assay (Biacore T200).



SEC-HPLC

The purity of Human ULBP-4 is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human ULBP-4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human RAET1E (Q8TD07-1, 31 a.a. - 225 a.a.) partial recombinant protein with hFc tag at C-terminus expressed in HEK293 cells.

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Sequence	HSLCFNFTIKSLSRPGQPWCEAQVFLNKNLFLQYNSDNNMVKPLGLLGKKVYATSTWGELTQTLG EVGRDLRMLLCDIKPQIKTSDPSTLQVEMFCQREAERCTGASWQFATNGEKSLLFDAMNMTWTV INHEASKIKETWKKDRGLEKYFRKLSKGDCDHWLREFLGHWEAMPEPTVSPVNASDIHWSSSSL PD
Host	Human
Theoretical MW (kDa)	49.12
Form	Liquid
Preparation Method	Mammalian cell (Expi293, high-yield transient HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The affinity constant of 0.17 uM as determined in SPR assay (Biacore T200).
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human ULBP-4 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human ULBP-4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS pH 7.4
Storage Instruction	Store at -80°C for 12 Month. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE
- Surface Plasmon Resonance

  Human ULBP-4, hFc Tag captured on CM5 Chip via Protein A can bind Human NKG2D, His Tag with an affinity constant of 0.17 uM as determined in SPR assay (Biacore T200).

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Gene Info — RAET1E

Entrez GeneID	135250
Protein Accession#	Q8TD07-1
Gene Name	RAET1E
Gene Alias	LETAL, MGC125308, MGC125309, RAET1E2, ULBP4, bA350J20.7
Gene Description	retinoic acid early transcript 1E
Omim ID	609243
Gene Ontology	Hyperlink
Gene Summary	Members of the RAET1 family, such as RAET1E, are major histocompatibility complex (MHC) class I-related genes located within a 180-kb cluster on chromosome 6q24.2-q25.3. RAET1 proteins contain MHC class I-like alpha-1 and alpha-2 domains. RAET1E and RAET1G (MIM 609244) differ from the other RAET1 proteins (e.g., RAET1I, or ULBP1; MIM 605697) in that they have type I membrane-spanning sequences at their C termini rather than glycosylphosphatidylinositol anchor sequences. (Radosavljevic et al., 2002 [PubMed 11827464]).[supplied by OMIM
Other Designations	OTTHUMP00000017404|lymphocyte effector toxicity activation ligand

Pathway

- Natural killer cell mediated cytotoxicity

Disease

- Genetic Predisposition to Disease

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