Data Sheet (Cat.No.TMPY-00190)

TargetMol

ULBP-6 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	retinoic acid early transcript 1L;RAET1L;ULBP6
Protein Construction:	A DNA sequence encoding the human RAET1L (AAK91503.1) (Met1-Ser217) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Arg 26
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAK91503.1
Molecular Weight:	48.5 kDa (predicted)

QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized human His-NKG2D(78-216) at 10 μg/ml (100 μl/well) can bind RAET1L-Fc, The EC50 of RAET1L-Fc is 13-30ng/ml.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

ULBP6/RAET1L, is a polymorphic locus that expresses a functional transcript. ULBP6 had a more restricted expression profile in cell lines and primary human tissues than other NKG2D ligands, but expression was detected in several human papillomavirus-positive cervical carcinoma cell lines and was inducible on infection with human CMV. Expression of ULBP6 on target cells induced a significant increase in NK-cell killing.

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