ULBP1/RAET1I Protein, Human (HEK293, His)

Cat. No.:	HY-P71163
Synonyms:	NKG2D ligand 1; N2DL-1; NKG2DL1; ALCAN-beta; Retinoic acid early transcript 1I; UL16-binding protein 1; ULBP1
Species:	Human
Source:	HEK293
Accession:	Q9BZM6 (G26-P215)
Gene ID:	80329
Molecular Weight:	26-30 kDa

PROPERTIES

AA Sequence	G W V D T H C L C Y D F I I T P K S R P E P Q W C E V Q G L V D E R P F L H Y D C V N H K A K A F A S L G K K V N V T K T W E E Q T E T L R D V V D F L K G Q L L D I Q V E N L I P I E P L T L Q A R M S C E H E A H G H G R G S W Q F L F N G Q K F L L F D S N N R K W T A L H P G A K K M T E K W E K N R D V T M F F Q K I S L G D C K M W L E E F L M Y W E Q M L D P T K P P S L A P
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The ULBP1/RAET1I protein plays a crucial role in natural killer cell cytotoxicity by acting as a ligand that binds to and activates the KLRK1/NKG2D receptor. This binding and activation mechanism highlights the significance of ULBP1/RAET1I in mediating the cytotoxic responses of natural killer cells. Moreover, it is noteworthy that ULBP1/RAET1I does not exhibit binding to beta2-microglobulin. This characteristic interaction profile underscores the specificity and selectivity of ULBP1/RAET1I in its engagement with KLRK1/NKG2D, emphasizing its pivotal role in immune responses and its potential as a therapeutic target for modulating natural killer cell activity.

Caution: Product has not been fully validated for medical applications. For research use only.

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