

Recombinant Human retinoic acid early transcript 1E, His-tagged

Cat. No. RAET1E-381H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RAET1E, 31-225 aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	31-225 a.a.
Description	RAET1E belongs to the RAET1 family, which consists of major histocompatibility complex (MHC) class I-related genes located in a cluster on chromosome 6q24.2-q25.3. RAET1E and RAET1G protein differ from other RAET1 proteins in that they have type I membrane-spanning sequences at their C termini rather than glycosylphosphatidylinositol anchor sequences. This protein functions as a ligand for NKG2D receptor, which is expressed on the surface of several types of immune cells, and is involved in innate adaptive immune responses. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Recombinant human RAET1E protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
Molecular Mass	24.9 kDa (219aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMHSLCFN FTIKLSLRPG QPWCEAQVFL NKNLFLQYNS DNNMVKPLGL LGKKVYATST WGELTQTLGE VGRDLRMLLC

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DIKPQIKTSD PSTLQVEMFC QREAERCTGA SWQFATNGEK SLLFDAMNMT
 WTVINHEASK IKETWKKDRG LEKYFRKLSK GDCDHWLREF LGHWEAMPEP
 TVSPVNASDI HWSSSSLPD

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [RAET1E retinoic acid early transcript 1E \[Homo sapiens \]](#)

Official Symbol RAET1E

Synonyms RAET1E; retinoic acid early transcript 1E; NKG2D ligand 4; bA350J20.7; LETAL; ULBP4; RAE-1-like transcript 4; lymphocyte effector toxicity activation ligand; RL-4; N2DL-4; NKG2DL4; RAET1E2; MGC125308; MGC125309;

Gene ID [135250](#)

mRNA Refseq [NM_001243325](#)

Protein Refseq [NP_001230254](#)

MIM [609243](#)

UniProt ID [Q8TD07](#)

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Chromosome Location	6q24.3
Pathway	Adaptive Immune System, organism-specific biosystem; Immune System, organism-specific biosystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell, organism-specific biosystem; Natural killer cell mediated cytotoxicity, organism-specific biosystem; Natural killer cell mediated cytotoxicity, conserved biosystem;
Function	protein binding;

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