
Product Data Sheet

Product Name: RAET1G Human
 Cat. No.: GP24322
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Retinoic acid early transcript 1G protein; RAET1G; ULBP5.		
Amino Acid Sequence	MKHHHHHHASGLADPHSLCY DITVIPKFRP GPRWCAVQQGQ VDEKTFLHYD CGSKTVTPVS PLGKCLNVTT AWKAQNPVLR EVVDILTEQL LDIQLENYIP KEPLTLQARM SCEQKAEGHG SGWQLSFDG QIFLLFDSEN RMWTTVHPGA RKMKEKWEND KDMTMSFHYI SMGDCTGWLE DFLMGMDSTL EPSAGGTV.		
Solubility	It is recommended to add 200 μ l deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. RAET1G is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	RAET1G filtered (0.4 μ m) and lyophilized from 0.5mg/ml in 20mM Tris buffer and 50mM NaCl, pH 7.5.		

Introduction

Retinoic Acid Early Transcript 1G (RAET1G/ULBP5) is a member of the MHC class I family. RAET1G functions as a ligand for the NKG2D receptor on the surface of NK cells. NKG2D stimulation influences anti-tumor and anti-viral immune responses of NK cells. ULBP ligands are generated by virally infected cells and tumors. RAET1G is expressed in 2 variants- a membrane and a soluble isoform. RAET1G is highly expressed in the colon and in several tumor cell lines.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

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

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Background

RAET1G Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (corresponding to Isoform 2, Uniprot accession #Q6H3X3-2) containing 198 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 22.43kDa (calculated).

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