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## Product Data Sheet

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Product Name: RAET1E Mouse  
 Cat. No.: GP24321  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	RAE-1-epsilon; Retinoic acid early-inducible protein 1-epsilon; Raet1e.		
Amino Acid Sequence	LDDAHSRLRCNLTIKDPTSAD LPWCDVKCSV DEITILHLNN INKTM TSGDP GKMANATGKC LTQPLNDLCQ ELRDKVSNTKVDTHKTNGYP HLQVTMIYPQ SQGQTPSATW EFNISDSYFF TFYTENMSWR SANDESGVIM NKWKDDGDLV QQLKYFIPQC RQKIDEFLKQ SKEKPRSTSR SPSITQLTST SPLPPPSHSL EHHHHHH.		
Formulation	RAET1E protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

### Introduction

RAET1E is a member of the MHC class I family. MHC class I family contains main histocompatibility complex (MHC) class I-related genes positioned in a cluster on chromosome 6q24.2-q25.3. RAET1E and RAET1G protein are different from other RAET1 proteins since they have type I membrane-spanning sequences at their C termini instead glycosylphosphatidylinositol anchor sequences. RAET1E acts as a ligand for NKG2D receptor, expressed on the surface of numerous types of immune cells, involves in innate adaptive immune reactions. RAET1E delivers signals to NK cells and advances tumor immune surveillance by inducing the growth of anti-tumor cytotoxic lymphocyte.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

RAET1E produced in Sf9 Insect cells is a single, glycosylated polypeptide chain

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

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containing 207 amino acids (29-227a.a.) and having a molecular mass of 23.5kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa).RAET1E is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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