Ras and Ef-Hand Domain-Containing Protein (RASEF) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ras and EF-hand domain-containing protein (RASEF), Recombinant Protein
Full Product Name	Recombinant Human Ras and EF-hand domain-containing protein (RASEF)
Product Gene Name	RASEF recombinant protein
Product Synonym Gene Name	RASEF
Sequence	MEADGDGEEL ARLRSVFAAC DANRSGRLER EEFRALCTEL RVRPADAEAV FQRLDADRDG AITFQEFARG FLGSLRGGRR RDWGPLDPAP AVSEAGPETH DSEEDEGDED AAAALATSCG PASPGRAWQD FQARLGDEAK FIPREEQVST LYQNINLVEP RLIQPYEHVI KNFIREIRLQ STEMENLAIA VKRAQDKAAM QLSELEEEMD QRIQAAEHKT RKDEKRKAEE ALSDLRRQYE TEVGDLQVTI KKLRKLEEQS KRVSQKEDVA ALKKQIYDLS MENQKVKKDL LEAQTNIAFL QSELDALKSD YADQSLNTER DLEIIRAYTE DRNSLERQIE ILQTANRKLH DSNDGLRSAL ENSYSKFNRS LHINNISPGN TISRSSPKFI GHSPQPLGYD RSSRSSYVDE DCDSLALCDP LQRTNCEVDS LPESCFDSGL STLRDPNEYD SEVEYKHQRG FQRSHGVQES FGGDASDTDV PDIRDEETFG LEDVASVLDW KPQGSVSEGS IVSSSRKPIS ALSPQTDLVD DNAKSFSSQK AYKIVLAGDA AVGKSSFLMR LCKNEFRENI SATLGVDFQM KTLIVDGERT VLQLWDTAGQ ERFRSIAKSY FRKADGVLLL YDVTCEKSFL NIREWVDMIE DAAHETVPIM LVGNKADIRD TAATEGQKCV PGHFGEKLAM TYGALFCETS AKDGSNIVEA VLHLAREVKK RTDKDDSRSI TNLTGTNSKK SPQMKNCCNG
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	20,736 Da
Sequence Positions	1-740, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	611344
3D Structure	ModBase 3D Structure for Q8IZ41
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RASEF recombinant protein	MBS1379913 is a recombinant protein targeting RASEF. Also known as Recombinant Human Ras and EF-hand domain-containing protein (RASEF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of RASEF recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RASEF. It may not necessarily be applicable to this product.

NCBI GI #	40255119
NCBI GeneID	158158
NCBI Accession #	NP_689786.2
UniProt Primary Accession #	Q8IZ41
UniProt Secondary Accession #	Q96N04; A6NC29
UniProt Related Accession #	Q8IZ41
GenBank Nucleotide #	NM_152573.3
NCBI Official Full Name	ras and EF-hand domain-containing protein
NCBI Official Synonym Full Names	RAS and EF-hand domain containing
NCBI Official Symbol	RASEF
NCBI Official Synonym Symbols	RAB45
UniProt Protein Name	Ras and EF-hand domain-containing protein
UniProt Synonym Protein Names	Ras-related protein Rab-45
Protein Family	Ras and EF-hand domain-containing protein
UniProt Gene Name	RASEF
UniProt Synonym Gene Names	RAB45
NCBI Protein Information	ras and EF-hand domain-containing protein
NCBI Summary for RASEF	This gene is a member of the Rab family of GTPases that are involved in regulation of membrane traffic. The encoded protein contains an N-terminal EF-hand domain, a coiled-coil motif and a C-terminal Rab domain. A potential role as tumor suppressor has been indicated for this gene. [provided by RefSeq, Nov 2012]
UniProt Comments for RASEF	Binds predominantly GDP, and also GTP.
Research Articles on RASEF	**1.** Near-genomewide RNAi screening for regulators of BRAF(V600E) -induced senescence identifies RASEF, a gene epigenetically silenced in melanoma.
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