
Product Data Sheet

Product Name: RAB32 Human
 Cat. No.: GP24294
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	RAB32 member RAS oncogene family; ras-related protein Rab-32.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMAGGGA GDPGLGAAAA PAPETREHLF KVLVIGELGV GKTSIIKRYV HQLFSQHYRA TIGVDFALKV LNWDSTLVR LQLWDIAGQE RFGNMTRVYY KEAVGAFVVF DISRSSTFEA VLKWKSDLDS KVHLPNGSPI PAVLLANKCD QNKDSSQSPS QVDQFCKEHG FAGWFETSAK DNINIEEAAR FLVEKILVNH QSPNEENDV DKIKLDQETL RAENKSQCC		
Formulation	The RAB32 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 5mM DTT, 0.2M NaCl, 0.2M EDTA and 50% glycerol.		

Introduction

RAB32 is a member of the small GTPase superfamily. RAB32 controls ER calcium management and disturbs the specific enhancement of calnexin on the MAM (mitochondria-associated membrane), however avoids affecting the ER distribution of protein-disulfide isomerase and mitofusin-2. Furthermore, RAB32 regulates the targeting of PKA (cAMP-dependent protein kinase) to mitochondrial and ER membranes and by inactivation or overexpression enhances the phosphorylation of Drp1 and Bad. Using a combination of its functions as a regulator of MAM properties and a PKA-anchoring protein, the activity and expression level of RAB32 define the speed of apoptosis onset.

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

RAB32 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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chain containing 249 amino acids (1-225) and having a molecular mass of 27.6 kDa. RAB32 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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