
Product Data Sheet

Product Name: RAP2B Human
 Cat. No.: GP24335
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	RAP2B; member of RAS oncogene family; Ras-related protein Rap-2b; Ras Family Small GTP Binding Protein RAP2B2; Small GTP Binding Protein.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMREYKVV VLGSGGVGKS ALTVQFVTGS FIEKYDPTIE DFYRKEIEVD SSPSVLEILD TAGTEQFASM RDLYIKNGQG FILVYSLVNQ QSFQDIKPMR DQIIRVKRYE RVPMILVGNK VDLEGEREVS YGEGKALAEW WSCPFMETS AKNKASVDELFAEIVRQMNYA AQPNGDEGCC SACVIL.		
Formulation	RAP2B protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

Introduction

Ras-related protein Rap-2b (RAP2B) is a part of RAS-related genes family. RAP2B has a threonine residue at aa 61 Unlike normal ras proteins which have a nontransforming glutamine residue at that position. The threonine residue makes the intrinsic GTPase activity for Rap2B lower, by this means allows RAP2B to exist in the activated state for a longer period of time than normal ras proteins. RAP2B is a platelet protein which is activated by thrombin and involved in platelet activation. RAP2B may be a candidate oncogene which takes part in carcinogenesis through activation of NF-kappaB pathway.

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

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

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RAP2B Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 206 amino acids (1-183 a.a) and having a molecular mass of 22.9kDa. RAP2B is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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