
Product Data Sheet

Product Name: SAR1B Human

Cat. No.: GP24491

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GTP-binding protein SAR1b; GTP-binding protein B; GTBPB; SAR1B; SARA2; SARB; ANDD; CMRD.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSFIFDW IYSGFSSVLQ FLGLYKKTGK LVFLGLDNAG KTTLLHMLKD DRLGQHVPTL HPTSEELTIA GMTFTTFDLG GHVQARRVWK NYLPAINGIV FLVDCADHER LLESKEELDS LMTDETIANV PILILGNKID RPEAISEERL REMFGLYGQT TGKGSISLKE LNARPLEVFM CSVLKRQGYG EGFRWMAQYI D.		
Formulation	SAR1B protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol.		

Introduction

SAR1B is a small GTPase that functions as a homodimer. GTP-Binding Protein SAR1B (SAR1b) is involved in transport from the endoplasmic reticulum to the Golgi apparatus and also in the selection of the protein cargo and the assembly of the COPII coat complex. The SAR1B protein is activated by the guanine nucleotide exchange factor PREB. SAR1B gene defects are a cause of chylomicron retention disease (CMRD), also known as Anderson disease (ANDD).

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

SAR1B Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 221 amino acids (1-198 a.a) and having a molecular mass of

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24.8kDa.SAR1B is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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