
Product Data Sheet

Product Name: AP1AR Human
 Cat. No.: GP22740
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	AP-1 complex-associated regulatory protein; 2c18; Adapter-related protein complex 1-associated regulatory protein; Gamma-1-adaptin brefeldin A resistance protein; GBAR; Gamma-BAR; Gamma-A1-adaptin and kinesin interactor; Gadkin; AP1AR; C4orf16; PRO0971.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGNCCWTQCF GLLRKEAGRL QRVGGGGGSK YFRTCSRGEH LTIEFENLVE SDEGESPGSS HRPLTEEEIV DLRERHYDSI AEKQKDLDDK IQKELALQEE KLRLEEEALY AAQREAAARA KQRKLEQER QRIVQQYHPS NNGEYQSSGP EDDFESCLRN MKSQYEVFRS SRLSSDATVL TPNTESSCDL MTKTKSTSGN DDSTSLDLEW EDEEGMNRML PMRERSKTEE DILRAALKYS NKKTGSNPTS ASDDSNGLW ENDFVSAEMD DNGNSEYSGF VNPVLELSDS GIRHSDTDQQ TR.		
Formulation	The AP1AR solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Adaptor-related protein complex 1 associated regulatory protein (AP1AR) is essential for AP-1 dependent transport between the trans-Golgi network and endosomes. AP1AR regulates the membrane association of AP1G1/Gamma1-adaptin which is one of the subunits of the AP-1 adapter complex. AP1AR plays a role as effector of AP-1 in calcium-induced endo-lysosome secretion. The interaction with AP1G1/Gamma1-adaptin attenuates the release of the AP-1 complex from membranes.

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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

AP1AR Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 322 amino acids (1-302) and having a molecular mass of 36.4 kDa. AP1AR is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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