
Product Data Sheet

Product Name: APRT Human
 Cat. No.: GP21407
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 2.4.2.73; MGC125857; AMP diphosphorylase; Adenine phosphoribosyltransferase; APRT; AMP; MGC125856; MGC129961; DKFZp686D13177.		
Amino Acid Sequence	MADSELQLVE QRIRSFDFP TPGVVFRDIS PVLKDPASFR AAIGLLARHL KATHGGRIDY IAGLDSRGFL FGPSLAQELG LGCVLIRKRG KLPGPTLWAS YSLEYGKAEL EIQKDALEPG QRVVVDDLL ATGGTMNAAC ELLGRLQAEV LECVSLVELT SLKGREKLAP VPFFSLLQYE.		
Formulation	The protein solution contains 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.		

Introduction

APRT is part of the purine/pyrimidine phosphoribosyltransferase family. APRT enzyme catalyzes the formation of AMP and inorganic pyrophosphate from adenine and 5-phosphoribosyl-1-pyrophosphate (PRPP). APRT produces adenine as a by-product of the polyamine biosynthesis pathway. A homozygous deficiency in APRT causes 2,8-dihydroxyadenine urolithiasis. APRT catalyzes a salvage reaction resulting in the formation of AMP.

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

APRT Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 180 amino acids (1-180 a.a.) and having a molecular mass of 19.6 kDa.

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

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The APRT is purified by conventional chromatography.

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