Recombinant human APRT protein

Catalog Number: ATGP0483

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-180aa

UniProt No.
P07741

NCBI Accession No.
NP_000476

Alternative Names
Adenine phosphoribosyltransferase, AMP, Adenine phosphoribosyltransferase AMP diphosphorylase, AMP pyrophosphorylase, DKFZp686D13177, MGC125856, MGC125857, MGC129961, Transphosphoribosidase.

PRODUCT SPECIFICATION

Molecular Weight
19.6 kDa (180aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
Non-Tagged

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
APRT (adenine phosphoribosyltransferase) is a 180 amino acid protein that localizes to the cytoplasm and belongs to the purine/pyrimidine phosphoribosyltransferase family. Existing as a homodimer, APRT functions to catalyze the formation of inorganic pyrophosphate and AMP from adenine and 5-phosphoribosyl-1-pyrophosphate (PRPP), a reaction that is essential for both purine metabolism and AMP biosynthesis. It also produces adenine as a by-product of the polyamine biosynthesis pathway. Recombinant human APRT protein

was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

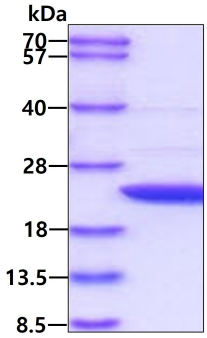
MADSELQLVE QRIRSFPDFP TPGVVFRDIS PVLKDPASFR AAIGLLARHL KATHGGRIDY IAGLDSRGFL FGPSLAQELG LGCVLIRKRG KLPGPTLWAS YSLEYGKAEL EIQKDALEPG QRVVVVDDLL ATGGTMNAAC ELLGRLQAEV LECVSLVELT SLKGREKLAP VPFFSLLQYE

General References

Baranowska-Bosiacka I., et al. (2009) Toxicology. 259(1-2):77-83.
Liang L., et al. (2007) Cancer Res. 67(5):1910-7.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.