

Recombinant human QTRTD1 protein

Catalog Number: ATGP2868

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-415aa

UniProt No.

Q9H974

NCBI Accession No.

NP_078914

Alternative Names

Queuine tRNA-ribosyltransferase subunit QTRTD1, Queuine tRNA-ribosyltransferase subunit QTRTD1, FLJ12960, Queuine tRNA-ribosyltransferase domain-containing protein 1, Queuine tRNA ribosyltransferase subunit QTRTD1

PRODUCT SPECIFICATION

Molecular Weight

49.1 kDa (438aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 2mM DTT, 1mM EDTA, 0.1mM PMSF

Purity

> 95% by SDS-PAGE

Tag

His-Tag

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

QTRTD1 interacts with QTRT1 to form an active queuine tRNA-ribosyltransferase. This enzyme exchanges queuine for the guanine at the wobble position of tRNAs with GuN anticodons (tRNA-Asp, -Asn, -His and -Tyr), thereby forming the hypermodified nucleoside queuosine. Recombinant human QTRTD1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

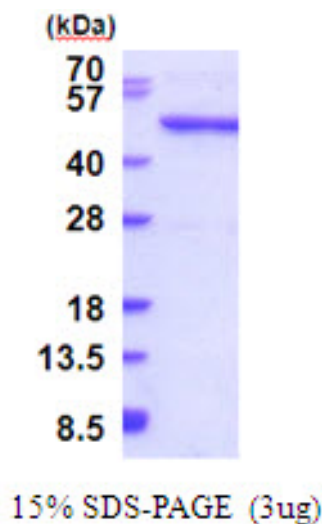
MGSSHHHHHH SSGLVPRGSH MGSMKLSLTK VVNGCRLGKI KNLGKTGDHT MDIPGCLLYT KTGSAPHLTH HTLHNIHGVP
 AMAQLTLSSL AEHHEVLTEY KEGVGKFIGM PESLLYCSLH DPVSPCPAGY VTNKSVSVWS VAGRVEMTVS KFMAIQKALQ
 PDWFQCLSDG EVSCKEATSI KRVKRSVDRS LLFLDNCLRL QEESEVLQKS VIIGVIEGGD VMEERLRSAR ETAKRPVGGF
 LLDGFQGNPT TLEARLRLLS SVTAELPEDK PRLISGVSRP DEVLECIERG VDLFESFFPY QVTERGCALT FSDYQPNPE
 ETLLQQNGTQ EEIKCMDQIK KIETTGCNQE ITSFEINLKE KKYQEDFNPL VRGCSCYCCK NHTRAYIHHL LVTNELLAGV
 LLMMHNFHEY FGFFHYIREA LKSDKLAQLK ELIHRQAS

General References

Chen,Y.C., et al. (2010) RNA 16 (5), 958-968

DATA

SDS-PAGE



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