

# Recombinant human QTRT1 protein

Catalog Number: ATGP3099

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-403aa

### UniProt No.

Q9BXR0

### NCBI Accession No.

NP\_112486

### Alternative Names

Queuine tRNA-ribosyltransferase, FP3235, TGT, TGUT

## PRODUCT SPECIFICATION

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### Molecular Weight

46.7 kDa (428aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 80% 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

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### Description

QTRT1 also known as queuine tRNA-ribosyltransferase. QTRT1 interacts with QTRTD1 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 (Q) (7-((4, 5-cis-dihydroxy-2-cyclopenten-1-yl) amino) methyl) -7-deazaguanosine). Recombinant QTRT1 was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

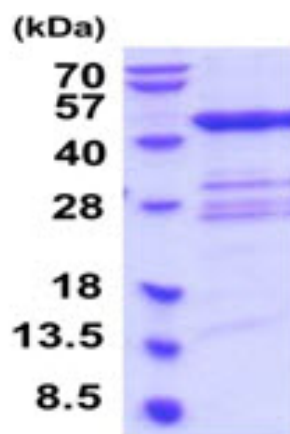
<MGSSHHHHHH SSGLVPRGSH MGSEF>MAGAA TQASLESAPR IMRLVAECSR SRARAGELWL PHGTVATPVF  
MPVGTQATMK GITTEQLDAL GCRIKLGNTY HLGLRPGPEL IQKANGLHGF MNWPHNLLTD SGGFQMVSLV SLSEVTEEGV  
RFRSPYDGNE TLLSPEKSVQ IQNALGSDII MQLDDVVSST VTGPRVEEAM YRSIRWLDRC IAAHQRPDKQ NLFIIQGG  
DADLRATCLE EMTKRDPVPGF AIGGLSGGES KSQFWRMVAL STSRLPKDKP RYLMGVGYAT DLVVCVALGC DMFDCVFPTR  
TARFGSALVP TGNLQLRKKV FEKDFGPIDP ECTCPTCQKH SRAFLHALLH SDNTAALHHL TVHNIAYQLQ LMSAVRTSIV  
EKRFPDFVRD FMGAMYGDPT LCPTWATDAL ASVGITLG

## General References

Deshpande K.L., et al. (2001) Gene 265:205-212

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)