

# Product information

## QTRTD1, 1-415aa

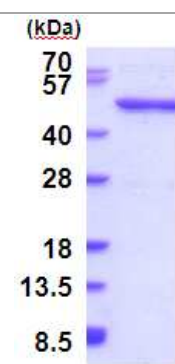
Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2868

**Full name:** Queuine tRNA-ribosyltransferase subunit QTRTD1

**NCBI Accession No.:** NP\_078914

**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 GU<sub>N</sub> 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.

<p><b>Form:</b> Liquid. In Phosphate buffer saline (pH 7.4) containing 30% glycerol, 2mM DTT, 1mM EDTA, 0.1mM PMSF</p> <p><b>Molecular Weight:</b> 49.1kDa (438aa) confirmed by MALDI-TOF</p> <p><b>Purity:</b> &gt; 95% by SDS - PAGE</p> <p><b>Concentration:</b> 0.25 mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b></p> <p>MGSSHHHHH SSGLVPRGSH MGSMLSLTK VVNGCRLGKI KNLGKTGDHT MDIPGCLLYT KTGSAPHLTH HTLHNIHGVP AMAQLTLSSL          AEHHEVLTEY KEGVGKFIGM PESLLYCSLH DPVSPCPAGY VTNKSVSVWS VAGRVEMTVS KFMAIQKALQ PDWFQCLSDG EVSCKEATS I          KRVRKSVDRS LLFLDNCLRL QESEVLQKS VIIGVIEGGD VMEERLRSAR ETAKRPVGGF LLDGFQGNPT TLEARLRLLS SVTAE LPEDK          PRLISGVS RP DEVLECIERG VDLFESFFPY QVTERGCALT FSFDYQNPPE ETLLQQNGTQ EEIKCMDQIK KIETTGCNQE ITSFEINLKE          KKYQEDFNPL VRGCSCYCK NHTRAYIHHL LVTNELLAGV LLMMHNFEHY FGFFHYIREA LKSDKLAQLK ELIHRQAS</p>	

### General references:

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

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.