

# Recombinant Human queuine tRNA-ribosyltransferase domain containing 1, His-tagged

Cat. No. QTRTD1-645H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	QTRTD1, 1-415aa Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-415 a.a.
<b>Description</b>	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.
<b>Form</b>	Liquid. In Phosphate buffer saline (pH 7.4) containing 30% glycerol, 2mM DTT, 1mM EDTA, 0.1mM PMSF
<b>Molecular Mass</b>	49.1kDa (438aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMKLSLTK VVNGCRLGKI KNLGKTGDHT MDIPGCLLYT KTGSAPHLTH HTLHNIHGVP AMAQLTLSSL AEHHEVLTEY KEGVGKFIGM PESLLYCSLH DPVSPCPAGY VTNKSVSVWS VAGRVENTVS KFMAIQKALQ PDWFQCLSDG EVSCKEATSI KRVRKSVDRS LLFLDNCLRL

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QESEVLQKS VIIGVIEGGD VMEERLRSAR ETAKRPVGGF LLDGFQGNPT  
 TLEARLRLLS SVTAELPEDK PRLISGVSRP DEVLECIERG VDLFESFFPY  
 QVTERGCALT FSFDYQPNPE ETLQNGTQ EEIKCMDQIK KIETTGCNQE  
 ITSFEINLKE KKYQEDFNPL VRGCSCYCK NHTRAYIHHL LVTNELLAGV  
 LLMMHNFEHY FGFFHYIREA LKSDKLAQLK ELIHRQAS

**Purity** >95% by SDS - PAGE

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

**Concentration** 0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [QTRTD1 queuine tRNA-ribosyltransferase domain containing 1 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** QTRTD1

**Synonyms** QTRTD1; queuine tRNA-ribosyltransferase domain containing 1; queuine tRNA-ribosyltransferase subunit QTRTD1; queuine tRNA-ribosyltransferase domain-containing protein 1; NP\_001243764.1; EC 2.4.2.29; NP\_001243765.1; NP\_001243766.1; NP\_078914.1

**Gene ID** [79691](#)

**mRNA Refseq** [NM\\_001256835](#)

**Protein Refseq** [NP\\_001243764](#)

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<b>UniProt ID</b>	Q9H974
<b>Chromosome Location</b>	3q13.31
<b>Function</b>	contributes_to queuine tRNA-ribosyltransferase activity; zinc ion binding

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