

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

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

SPECIFICATION

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

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QEESEVLQKS VIIGVIEGGD VMEERLRSAR ETAKRPVGGF LLDGFQGNPT
 TLEARLRLLS SVTAELPEDK PRLISGVSRP DEVLECIERG VDLFESFFPY
 QVTERGCALT FSFDYQPNPE ETLLQQNGTQ EEIKCMDQIK KIETTGCNQE
 ITSFEINLKE KKYQEDFNPL VRGCSCYCCK 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 queueine tRNA-ribosyltransferase domain containing 1 \[Homo sapiens \(human\) \]](#)

Official Symbol QTRTD1

Synonyms QTRTD1; queueine tRNA-ribosyltransferase domain containing 1; queueine tRNA-ribosyltransferase subunit QTRTD1; queueine 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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UniProt ID	Q9H974
Chromosome Location	3q13.31
Function	contributes_to queuine tRNA-ribosyltransferase activity; zinc ion binding

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