

Recombinant Human QTRT1, His-tagged

Cat. No. QTRT1-79H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant QTRT1 was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	QTRT1 also known as queuine tRNA-ribosyltransferase. QTRT1 interacts with QTRT D1 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).
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 30% glycerol, 1mM DTT
Molecular Mass	46.7kDa (428aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSEFMAGAA TQASLESAPR IMRLVAECSR SRARAGELWL PHGTVATPVF MPVGTQATMK GITTEQLDAL GCRICLGNTY HLGLRPGPEL IQKANGLHGF MNWPHNLLTD SGGFQMVSLV SLSEVTEEGV RFRSPYDGNE TLLSPEKSVQ IQNALGSDII MQLDDVVSST VTGPRVEEAM YRSIRWLDRC IAAHQRPDKQ NLFIIQGGL DADLRATCLE EMTKRDVPGF AIGGLSGGES KSQFWRMVAL STSRLPKDKP RYLMGVGYAT DLVVCVALGC DMFDCVFPTR TARFGSALVP TGNLQLRKKV FEKDFGPIDP ECTCPTCQKH SRAFLHALLH SDNTAALHHL TVHNIAYQLQ LMSAVRTSIV EKRFPDFVRD

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FMGAMYGDPT LCPTWATDAL ASVGITLG

Purity >80% 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 0.25mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name QTRT1 queueine tRNA-ribosyltransferase 1 [Homo sapiens]

Official Symbol QTRT1

Synonyms QTRT1; queueine tRNA-ribosyltransferase 1; queueine tRNA-ribosyltransferase; TGT; tRNA guanine transglycosylase; TGT, 43-KD subunit; TGT, catalytic subunit; guanine insertion enzyme; tRNA-guanine transglycosylase; TGUT; FP3235;

Gene ID 81890

mRNA Refseq NM_031209

Protein Refseq NP_112486

MIM 609615

UniProt ID Q9BXR0

Chromosome Location 19p13.3

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Function

metal ion binding; contributes_to queuine tRNA-ribosyltransferase activity; queuine tRNA-ribosyltransferase activity; transferase activity, transferring glycosyl groups;

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