

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 SGLVPRGSH GSMKLSLTK VVNGCRLGKI KNLGKTGDHT MDIPGCLLYT KTGSAPHLTH HTLHNIHGVP AMAQLTLSSL AEHHEVLTEY KEGVGKFIGM PESLLYCSLH DPVSPCPAGY VTNKSVSVWS VAGRVENTVS KFMAIQKALQ PDWFQCLSDG EVSCKEATSI KVRKSVDRS LLFLDNCLRL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA