

QTRT1, 1-403aa, Human, His tag, E.coli

Cat.NO.: TP03616

3th Edition

Synonyms: Queuine tRNA-ribosyltransferase, FP3235, TGT, TGUT

Description: QTRT1 also known as queuine tRNA-ribosyltransferase. QTRT1 interacts with QTRTD1 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). Recombinant QTRT1 was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate buffered saline (pH7.4) containing 30% glycerol, 1mM DTT

Molecular Weight: 46.7kDa (428aa) confirmed by MALDI-TOF

Sequences:

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MGSSHHHHHSSGLVPRGSHMGSEFMAGAATQASLESAPRIMRLVAECSSRSRARAGELWLPHGTVATPVFMPV
GTQATMKGITTEQLDALGCRICLGNTYHLGLRPGPELIQKANGLHGFMNWPHNLLTDSGGFQMVSLVSLSEVTEEG
VRFRRSPYDGNETLLSPEKSVQIQNALGSDIIMQLDDVVSSTVTGPRVEEAMYSIRWLDRCIAAHQRPKQNLFAIIQ
GGLDADLRATCLEEMTKRDVPGFAIGGLSGGESKSFWRMVALSTSRLPKDKPRYLMGVGYATDLVVCVALGCD
MFDCVFPTRTARFGSALVPTGNLQLRKKVFEKDFGPIDPECTCPTCQKHSRAFLHALLHSDNTAALHHLTVHNIAYQ
LQLMSAVRTSIVEKRFPDFVRDFMGAMYGDPTLCPTWATDALASVGITLG
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Purity: > 95% by HPLC

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

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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.