

QTRTD1, 1-415aa Human, His tag, E.coli

Cat.NO.: TP03617

3th Edition

Synonyms: Queuine tRNA-ribosyltransferase subunit QTRTD1, FLJ12960, Queuine tRNA-ribosyltransferase domain-containing protein 1, Queuine tRNA ribosyltransferase subunit QTRTD1

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 Weight: 49.1kDa (438aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMKLSLTKVVNGCRLGKIKNLGKTGDHTMDIPGCLLYTKTGSAPHLTHHTLHN
IHGVPAMAQLTLSSLAEHHEVLTEYKEGVGKFIGMPESLLYCSLHDPVSPCPAGYVTNKSVSVWSVAGRVEMTVSK
FMAIQKALQPDWFQCLSDGEVSCKEATSIKRVRKSVDRSLLFLDNCLRLQEESEVLQKSVIIGVIEGGDVMEERLRS
ARETAKRPVGGFLLDGFQGNPTTLEARLRLSSVTAELPEDKPR LISGVS RPDEVLECIERGVDLFESFFPYQVTER
GCALTFSDYQPNPEETLLQNGTQEEIKCMDQIKKIETTGCNQEITSFEINLKEKKYQEDFNPLVRCSCYCKNH
TRAYIHLLVTNELLAGVLLMMHNFHYFGFFHYIREALKSDKLAQLKELIHRQAS

Purity: > 95% by HPLC

Concentration: 0.25 mg/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.