

Product Data Sheet

Product Name: QTRT1 Human
 Cat. No.: GP22214
 Batch No.: 1

Product Data

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|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Queuine TRNA-Ribosyltransferase 1; TRNA-GuanineTransglycosylase; TGT; Guanine Insertion Enzyme; EC 2.4.2.29; TGUT; QueuineTRNA-Ribosyltransferase; TGT; Catalytic Subunit; TGT; 43-KD Subunit; FP3235; QueuinetRNA-ribosyltransferase. | | |
| Amino Acid Sequence | <p>MGSSHHHHHH SGLVPRGSH MGSEFMAGAA TQASLESAPR IMRLVAECSR SRARAGELWL PHGTVATPVFMPVGTQATMK GITTEQLDAL GCRICLGNTY HLGRLPGPEL IQKANGLHGF MNWPHNLLTD SGGFQMVSLVSLSEVTEEGV RFRSPYDGNE TLLSPEKSVQ IQNALGSDII MQLDDVVSST VTGPRVEEAM YRSIRWLDRCIAAHQRPDKQ NLFIIQGGL DADLRATCLE EMTKRDPVPGF AIGGLSGGES KSQFWRMVAL STSRLPKDKP RYLMGVGYATDLVVCVALGC DMFDCVFPTR TARFGSALVP TGNLQLRKKV FEKDFGPIDP ECTCPTCQKH SRAFLHALLHSDNTAALHHL TVHNIAYQLQ LMSAVRTSIV EKRFPDFVRD FMGAMYGDPT LCPTWATDAL ASVGITLG.</p> | | |
| Formulation | QTRT1 protein solution (0.25mg/ml) containing Phosphatebuffered saline (pH7.4), 30% glycerol and 1mM DTT. | | |

Introduction

Queuine TRNA-Ribosyltransferase 1 also known as QTRT1 is a member of the queuine tRNA-ribosyltransferase family. QTRT1 interacts with QTRTD1 to form an active queuine tRNA-ribosyltransferase. Furthermore, QTRT1 exchanges queuine for the guanine at the wobble position of tRNAs with GUN anticodons (tRNA-Asp, -Asn, -His and -Tyr), in this manner forming the hypermodified nucleoside queuosine (Q)(7-(((4,5-cis-dihydroxy-2-cyclopenten-1-yl)amino)methyl)-7-deazaguanosine).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

QTRT1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 428 amino acids (1-403 a.a) and having a molecular mass of 46.7kDa. QTRT1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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