
Product Data Sheet

Product Name: QTRTD1 Human

Cat. No.: GP22215

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Queuine TRNA-Ribosyltransferase Domain Containing 1; EC 2.4.2.29; Queuine TRNA-Ribosyltransferase Domain-Containing Protein 1; QTRTD1.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MGSMKLSLTK VVNGCRLGKI KNLGKTGDHT MDIPGCLLYT KTGSAPHLTH HTLHNIHGVP AMAQLTLSSL AEHHEVLTEY KEGVGKFIGM PESLLYCSLH DPVSPCPAGY VTNKSVSVWS VAGRVENTVS KFMAIQKALQ PDWFQCLSDG EVSCKEATSI KRVRKSVDRS LLFLDNCLRL QESEVLQKS VIIGVIEGGD VMEERLSAR ETAKRPVGGF LLDGFQGNPT TLEARLRLLS SVTAELPEDK PRLISGVSRP DEVLECIERG VDLFESFFPY QVTERGCALT FSFDYQPNPE ETLQNGTQ EEIKCMDQIK KIETTGCNQE ITSFEINLKE KKYQEDFNPL VRGCSCYCCK NHTRAYIHHL LVTNELLAGV LLMMHNFEHY FGFFHYIREA LKSDKLAQLK ELIHRQAS.</p>		
Formulation	QTRTD1 protein solution (0.25mg/ml) containing Phosphatebuffered saline (pH7.4) 30% glycerol, 2mM DTT, 1mM EDTA and 0.1mM PMSF.		

Introduction

Queuine TRNA-Ribosyltransferase Domain Containing 1, also known as QTRTD1 act together with QTRT1 to form an active queuine tRNA-ribosyltransferase. QTRTD1 exchanges queuine for the guanine at the wobble position of tRNAs along with GUN anticodons (tRNA-Asp, -Asn, -His and -Tyr), in that way forming the hypermodified nucleoside queuosine.

Stability

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

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

QTRTD1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 438 amino acids (1-415 a.a) and having a molecular mass of 49.1kDa. QTRTD1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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