
Product Data Sheet

Product Name: QPCT Human
 Cat. No.: GP22212
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutaminyl-Peptide Cyclotransferase; Glutaminyl Cyclase; QC; Glutaminyl-TRNA Cyclotransferase; Glutaminyl Cyclase; EC 2.3.2.5; SQC; EC; GCT; Glutaminyl-peptide cyclotransferase.		
Amino Acid Sequence	VSPSASAWPE EKNYHQPAIL NSSALRQIAE GTSISEMWQN DLQPLLIERYPGSPGSYAAR QHIMQRIQRL QADWWLEIDT FLSQTPYGYR SFSNIISTLN PTAKRHLVLA CHYDSKYFSHWNNRVFVGAT DSAVPCAMML ELARALDKKL LSLKTVSDSK PDLQLIFF DGEEAFLHWSPQDSLYGSRH LAAKMASTPH PPGARGTSQL HGMDLLVLLD LIGAPNPTFPNFFPNSARWF ERLQAIHEL HELGLLDKHS LEGRYFQNY S YGGVIQDDHI PFLRRGVPVL HLIPSPFPEVWHTMDDNEEN LDESTIDNLN KILQVVFVLEY LHLHHHHHHH.		
Formulation	QPCT protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Glutaminyl-Peptide Cyclotransferase, also known as QPCT is a member of the glutaminyl-peptide cyclotransferase family. QPCT is responsible for the biosynthesis of pyroglutamyl peptides. Furthermore, QPCT is partial against acidic and tryptophan residues adjacent to the N-terminal glutaminyl residue and a lack of importance of chain length following the second residue. QPCT catalyzes N-terminal pyroglutamate formation, also in vitro, it catalyzes pyroglutamate formation of N-terminally truncated form of APP amyloid-beta peptides [Glu-3]-beta-amyloid.

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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

QPCT produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 339 amino acids (29-361a.a.) and having a molecular mass of 38.7kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). QPCT is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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