

Recombinant human QPCT protein

Catalog Number: ATGP3153

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

29-361aa

UniProt No.

Q16769

NCBI Accession No.

NP_036545

Alternative Names

Glutaminyl-peptide cyclotransferase, GCT, QC, sQC

PRODUCT SPECIFICATION

Molecular Weight

38.7 kDa (339aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

QPCT, also known as glutaminyl-peptide cyclotransferase, is responsible for the biosynthesis of pyroglutamyl peptides. This protein has a bias against acidic and tryptophan residues adjacent to the N-terminal glutaminyl residue and a lack of importance of chain length after the second residue. It catalyzes N-terminal pyroglutamate formation. In vitro, it catalyzes pyroglutamate formation of N-terminally truncated form of APP amyloid-beta

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peptides [Glu-3]-beta-amyloid. Recombinant human QPCT, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

VSPSASAWPE EKNYHQPAIL NSSALRQIAE GTSISEMWQN DLQPLLIERY PGSPGSYAAR QHIMQRIQRL QADWVLEIDT
FLSQTPYGYR SFSNIISTLN PTAKRHLVLA CHYDSKYFSH WNNRVFVGAT DSAVPCAMML ELARALDKKL LSLKTVSDSK
PDLQLQIIF DGEEAFLHWS PQDSLYGSRH LAAKMASTPH PPGARGTSQL HGMDLLVLLD LIGAPNPTFP NFFPNSARWF
ERLQAIEHEL HELGLLKDHS LEGRYFQNYYS YGGVIQDDHI PFLRRGVPVL HLIPSPFPEV WHTMDDNEEN LDESTIDNLN
KILQVFVLEY LHLHHHHHHH

General References

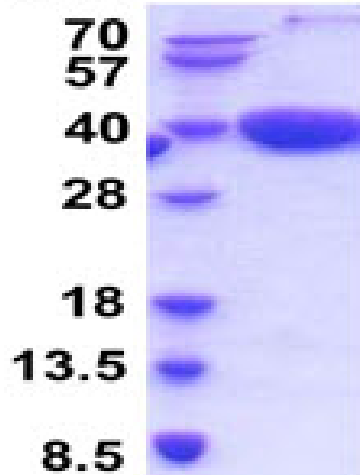
Schilling S. et al., (2004) FEBS Lett. 563:191-196.

Huang K.F. et al., (2011) J. Biol. Chem. 286:12439-12449.

DATA

SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)