

QPCT, 29-361aa

Human, His-tagged, Recombinant, Insect cell

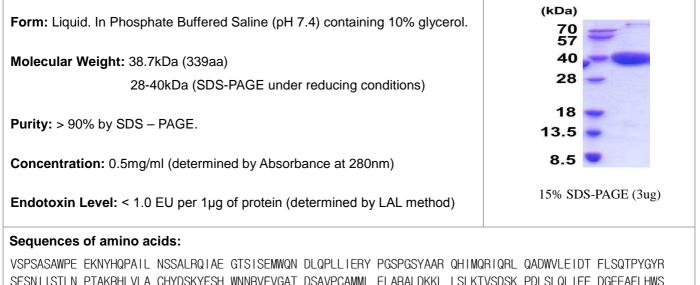
Cat. No. IBATGP3153

Full name: Glutaminyl-peptide cyclotransferase

NCBI Accession No.: NP_036545

Synonyms: GCT, QC, sQC

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 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.



SFSNIISTLN PTAKRHLVLA CHYDSKYFSH WNNRVFVGAT DSAVPCAMML ELARALDKKL LSLKTVSDSK PDLSLQLIFF DGEEAFLHWS PQDSLYGSRH LAAKMASTPH PPGARGTSQL HGMDLLVLLD LIGAPNPTFP NFFPNSARWF ERLQAIEHEL HELGLLKDHS LEGRYFQNYS YGGVIQDDHI PFLRRGVPVL HLIPSPFPEV WHTMDDNEEN LDESTIDNLN KILQVFVLEY LHL<u>HHHHHH</u>

General references:

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

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

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

