

Recombinant Human QPCT protein, His-tagged

Cat. No. QPCT-36H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human QPCT, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	29-361 a.a.
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.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	38.7kDa (339aa)28-40kDa (SDS-PAGE under reducing conditions)
AA Sequence	VSPSASAWPE EKNYHQPAIL NSSALRQIAE GTSISEMWQN DLQPLLIERY PGSPGSYAAR QHIMQRIQRL QADWVLEIDT FLSQTPYGYRSFSNIISTLN PTAKRHLVLA CHYDSKYFSH WNNRVFVGAT DSAVPCAMML ELARALDKKL LSLKTVSDSK PDLSQLIFF DGEEAFLHWSPQDSLYGSRH LAAKMASTPH PPGARGTSQL HGMDLLVLLD LIGAPNPTFP NFFPNSARWF ERLQAIEHEL

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HELGLLDKHS LEGRYFQNYSGGVIQDDHI PFLRRGVPVL HLIPSPFPEV
WHTMDDNEEN LDESTIDNLN KILQVFLVLEY LHLHHHHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity >90% by SDS – PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name QPCT glutaminyl-peptide cyclotransferase [Homo sapiens]

Official Symbol QPCT

Synonyms QPCT; glutaminyl-peptide cyclotransferase; GCT; glutaminyl cyclase; QC; EC; glutamyl cyclase; glutaminyl-tRNA cyclotransferase; sQC;

Gene ID 25797

mRNA Refseq NM_012413

Protein Refseq NP_036545

MIM 607065

UniProt ID Q16769

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Chromosome Location	2p22
Function	glutaminyI-peptide cyclotransferase activity; metal ion binding; peptidase activity; transferase activity, transferring acyl groups; zinc ion binding;

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