

## 32-6907: QPCT Human

**Alternative Name :** Glutaminyl-Peptide Cyclotransferase, Glutaminyl Cyclase, QC, Glutaminyl-TRNA Cyclotransferase, Glutamyl Cyclase, EC 2.3.2.5, SQC, EC, GCT, Glutaminyl-peptide cyclotransferase.

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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.

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.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** QPCT protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

**Storage condition :** 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.

**Amino Acid :** VSPSASAWPE EKNYHQPAIL NSSALRQIAE GTSISEMWQN DLQPLLIERY PGSPGSYAAR QHIMQRIQRL QADWVLEIDT FLSQTPYGYR SFSNIISTLN PTAKRHLVLA CHYDSKYFSH WNNRVFVGAT DSAVPCAMML ELARALDKKL LSLKTVSDSK PDLQLLIFF DGEEAFLHWS PQDSLYGSRH LAAKMASTPH PPGARGTSQL HGMDLLVLLD LIGAPNPTFP NFFPNSARWF ERLQAIEHEL HELGLLKDHS LEGRYFQNYYS YGGVIQDDHI PFLRRGVPVL HLIPSPFPEV WHTMDDNEEN LDESTIDNLN KILQVFLVLEY LHLHHHHHHH.