



# Recombinant Human Glutaminyl-peptide cyclotransferase (QPCT)

<b>Product Code</b>	CSB-EP019135HU
<b>Relevance</b>	Responsible for the biosynthesis of pyroglutamyl peptides. 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. Also catalyzes N-terminal pyroglutamate formation. In vitro, catalyzes pyroglutamate formation of N-terminally truncated form of APP amyloid-beta peptides [Glu-3]-beta-amyloid. May be involved in the N-terminal pyroglutamate formation of several amyloid-related plaque-forming peptides.
<b>Abbreviation</b>	Recombinant Human QPCT protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q16769
<b>Alias</b>	Glutaminyl cyclase ;QC ;sQCGlutaminyl-tRNA cyclotransferaseGlutaminyl cyclase ;EC
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	VSPSASAWPEEKNYHQPAILNSSALRQIAEGTISEMWQNDLQPLLIERYPGS PGSYAARQHIMQRIQRLQADWVLEIDTFLSQTPYGYRSFSNIISTLNPTAKRHL VLACHYDSKYFSHWNNRVFVGATDSAVPCAMMLELARALDKLLSLKTVSDS KPDLSLQLIFFDGEEAFLHWSPQDSLYGSRHLAAKMASTPHPPGARGTSQLH GMDLLVLLDLIGAPNPTFPNFFPN SARWFERLQAIEHELHELGLLKDHSLEGRY FQNYSYGGVIQDDHIPFLRRGVPVLHLIPSPFPEVWHTMDDNEENLDESTIDNL NKILQVVFVLEYLHL
<b>Research Area</b>	Neuroscience
<b>Source</b>	E.coli
<b>Target Names</b>	QPCT
<b>Expression Region</b>	29-361aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	53.9kDa
<b>Protein Length</b>	Full Length of Mature Protein

