

QPCT Protein, Human (sf9, His)

Cat. No.:	HY-P76560
Synonyms:	Glutamyl-peptide cyclotransferase; QC; Glutamyl cyclase; EC
Species:	Human
Source:	Sf9 insect cells
Accession:	Q16769 (A33-L361)
Gene ID:	25797
Molecular Weight:	Approximately 38 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

QPCT Protein is responsible for the synthesis of pyroglutamyl peptides, displaying a preference against adjacent acidic and tryptophan residues to the N-terminal glutaminyl residue, while showing minimal impact on chain length beyond the second residue. It also catalyzes the formation of N-terminal pyroglutamate. In laboratory settings, it facilitates pyroglutamate formation in truncated forms of APP amyloid-beta peptides, specifically [Glu-3]-amyloid-beta. QPCT Protein might also play a role in the N-terminal pyroglutamate formation of various peptides associated with amyloid-related plaque formation.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA