

GGACT Protein, Human, Recombinant (His)

General Information

Synonyms:	Gamma-Glutamylaminocyclotransferase;A2LD1;AIG2-Like Domain-Containing Protein 1;γ-Glutamylaminocyclotransferase;GGACT
Protein Construction:	Met1-Arg153
Species:	Human
Expression Host:	E. coli
Accession:	Q9BVM4
Molecular Weight:	18 KDa (reducing condition)
AA Sequence:	Met1-Arg153

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 10% Glycerol, pH 8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Gamma-Glutamylaminocyclotransferase is an enzyme that converts gamma-glutamylamines to free amines and 5-oxoproline which belongs to the gamma-glutamylcyclotransferase family. It shows high activity toward gamma-glutamyl-epsilon-lysine, derived from the breakdown of fibrin and contributes to degradation of proteins cross-linked by transglutaminases. It degrades the cross-link between a lysine and a glutamic acid residue from two proteins that have been cross-linked by transglutaminases. This protein adopts the newly identified cyclotransferase fold, observed in Gamma-Glutamylcyclotransferase, an enzyme with activity toward gamma-glutamyl-alpha-amino acids.

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