GGACT Protein, Human (HEK293, His)

Cat. No.:	HY-P70902
Synonyms:	Gamma-Glutamylaminecyclotransferase; GGACT; AIG2-Like Domain-Containing Protein 1; A2LD1
Species:	Human
Source:	HEK293
Accession:	Q9BVM4 (M1-R153)
Gene ID:	87769
Molecular Weight:	Approximately 18.0 kDa

PROPERTIES

AA Sequence	M A L V F V Y G T L K R G Q P N H R V L R D G A H G S A A F R A R G R T L E P Y P L V I A G E H N I P W L L H L P G S G R L V E G E V Y A V D E R M L R F L D D F E S C P A L Y Q R T V L R V Q L L E D R A P G A E E P P A P T A V Q C F V Y S R A T F P P E W A Q L P H H D S Y D S E G P H G L R Y N P R E N R
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	GGACT (Gamma-glutamylamine cyclotransferase), also known as 5-oxoprolinase, plays a crucial role in the degradation of proteins cross-linked by transglutaminases by cleaving the cross-link between a lysine and a glutamic acid residue. Additionally, GGACT catalyzes the formation of 5-oxo-L-proline from L-gamma-glutamyl-L-epsilon-lysine. Notably, GGACT exhibits inactivity with substrates such as L-gamma-glutamyl-L-alpha-cysteine and L-gamma-glutamyl-L-alpha-alanine, suggesting substrate specificity in its enzymatic activity. The enzyme's ability to target specific cross-linked protein structures highlights its importance in cellular processes associated with protein turnover and degradation.

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

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