

Recombinant Human GGCT, His-tagged

Cat. No. GGCT-956H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GGCT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	GGCT, also known as gamma-glutamylcyclotransferase, belongs to the family of transferases, specifically the aminoacyltransferases. This protein catalyzes the formation of 5-oxoproline from gamma-glutamyl dipeptides and may play a significant role in glutathione homeostasis. GGCT induces release of cytochrome c from mitochondria with resultant induction of apoptosis.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
Molecular Weight	23.2 kDa (208aa) confirmed by MALDI-TOF.
Purity	> 95% by SDS - PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MANS GCKDVT GPDEESFLYF AYGSNLLTER IHLRNPSAAF FCVARLQDFK LDFGNSQGKT SQTWHGGIAT IFQSPGDEVW GVVWKMNKS N LNSLDEQEGV KSGMYVVIEV KVATQEGKEI TCRSYLMTNY ESAPPSPQYK KIICMGAKEN GLPLEYQEKL KAIEPNDYTG KVSEEIEDII

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Glutathione metabolism

GENE INFORMATION

Gene Name

GGCT gamma-glutamylcyclotransferase [Homo sapiens]

Synonyms

gamma-glutamylcyclotransferase;gam-ma-glutamyl cyclotransferase; GGC; GCTG; CRF21; C7orf24; MGC3077; FLJ11717; GGCT; OTTHUMP000002-02475; cytochrome c-releasing factor 21;Cytochrome c-releasing factor 21; EC 2.3.2.4

Gene ID

79017

mRNA Refseq

NM_024051

Protein Refseq

NP_076956

MIM

137170

UniProt ID

O75223

**Chromosome
Location**

7p15-p14

Function

acyltransferase activity; gamma-glutamylcyclotransferase activity; protein homodimerization activity; transferase activity

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