

Recombinant Human GGCT, His-tagged

Cat. No. GGCT-28745TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GGCT with an N terminal His tag; 208 amino acids with tag, Predicted MWt 23.2 kDa.
Species	Human
Source	E.coli
ProteinLength	188 amino acids
Description	The protein encoded by this gene catalyzes the formation of 5-oxoproline from gamma-glutamyl dipeptides, the penultimate step in glutathione catabolism, and may play a critical role in glutathione homeostasis. The encoded protein may also play a role in cell proliferation, and the expression of this gene is a potential marker for cancer. Pseudogenes of this gene are located on the long arm of chromosome 5 and the short arm of chromosomes 2 and 20. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Conjugation	HIS
Molecular Weight	23.200kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMANSGCKDVTGPDEESFLYFAYGSNLLTERIHLRN PSAAFFCVARLQDFKLDGNSQGKTSQTHGGIATIFQSPGDEVWGVVWKMKNKS LNSLDEQEGVKSGMYVVEVKVATQEGKEITCRSYLMTNYESAPPSPQYKKIICMGA KENGLPLEYQEKLAIEPNODYTGKVSEEIEDIIKKGETQTL

GENE INFORMATION

Gene Name	GGCT gamma-glutamylcyclotransferase [Homo sapiens]
Official Symbol	GGCT
Synonyms	GGCT; gamma-glutamylcyclotransferase; C7orf24, chromosome 7 open reading frame 24 , GCTG; CRF21; Ggc; MGC3077;
Gene ID	79017
mRNA Refseq	NM_001199817
Protein Refseq	NP_001186746
MIM	137170
Uniprot ID	O75223
Chromosome Location	7p15-p14

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Pathway	Biological oxidations, organism-specific biosystem; Glutathione conjugation, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Glutathione synthesis and recycling, organism-specific biosystem;
Function	gamma-glutamylcyclotransferase activity; gamma-glutamylcyclotransferase activity; protein homodimerization activity; transferase activity, transferring acyl groups;

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