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Recombinant human Gammaglutamylcyclotransferase/GGCT protein

Catalog Number: ATGP0887

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-188aa

UniProt No.

075223

NCBI Accession No.

NP 076956

Alternative Names

Gamma-glutamylcyclotransferase, C7orf24, CRF21, FLJ11717, GCTG, Ggc, MGC3077, Cytochrome c-releasing factor 21

PRODUCT SPECIFICATION

Molecular Weight

23.2 kDa (208aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human GGCT protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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Amino acid Sequence

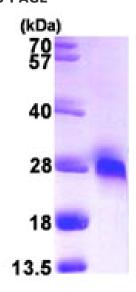
MGSSHHHHHH SSGLVPRGSH MANSGCKDVT GPDEESFLYF AYGSNLLTER IHLRNPSAAF FCVARLQDFK LDFGNSQGKT SQTWHGGIAT IFQSPGDEVW GVVWKMNKSN LNSLDEQEGV KSGMYVVIEV KVATQEGKEI TCRSYLMTNY ESAPPSPQYK KIICMGAKEN GLPLEYQEKL KAIEPNDYTG KVSEEIEDII KKGETQTL

General References

Masuda Y., et al. (2006) Biochem Biophys Res Commun. 346(2):454-60. Oakley AJ., et al. (2008) J Biol Chem. 283(32):22031-42.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

