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Product datasheet for PH300962

GGCT (NM_024051) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GGCT MS Standard C13 and N15-labeled recombinant protein (NP_076956)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200962
Predicted MW:	21 kDa
Protein Sequence:	>RC200962 protein sequence Red=Cloning site Green=Tags(s) MANSGCKDVTGPDEESFLYFAYGSNLLTERIHLRNPSAAFFCVARLQDFKLDFGNSQGKTSQTWHGGIAT IFQSPGDEVWGVVWKMNKSNLNSLDEQEGVKSGMYVVIEVKVATQEGKEITCRSYLMTNYESAPPSPQYK KIICMGAKENGLPLEYQEKLKAIEPNDYTGKVSEEIEDIIKKGETQTL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_076956
RefSeq Size:	1197
RefSeq ORF:	564
Synonyms:	C7orf24; CRF21; GCTG; GGC
Locus ID:	79017
UniProt ID:	O75223, A0A090N7V5

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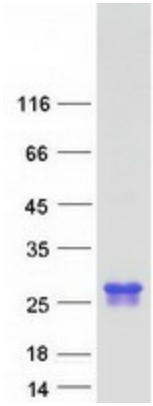
Cytogenetics: 7p14.3

Summary: 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. [provided by RefSeq, Dec 2010]

Protein Pathways: Glutathione metabolism

Product images:



Coomassie blue staining of purified GGCT protein (Cat# [TP300962]). The protein was produced from HEK293T cells transfected with GGCT cDNA clone (Cat# [RC200962]) using MegaTran 2.0 (Cat# [TT210002]).