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Product datasheet for PH303174

Glutathione Synthetase (GSS) (NM_000178) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GSS MS Standard C13 and N15-labeled recombinant protein (NP_000169)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203174
Predicted MW:	52.4 kDa
Protein Sequence:	>RC203174 protein sequence Red=Cloning site Green=Tags(s) MATNWGSLLQDKQQLEELARQAVDRALAEGVLLRTSQEPTSSEVVSYAPFTLFPSLVPSALLEQAYAVQM DFNLLVDAVSQNAAFLEQTLSSTIKQDDFTARLFDIHKQVLKEGIAQTVFLGLNRSDYMFQRSADGSPAL KQIEINTISASFGGLASRTPAVHRHVLSVLSKTKEAGKILSNNPSKGLALGIAKAWELYGSPNALVLLIA QEKERNIFDQRAIENELLARNIHVIRRTFEDISEKGSLDQDRRLFVDGQEIAVVYFRDGYMPRQYSLQNW EARLLLERSHAAKCPDIATQLAGTKKVQQELSRPGMLEMLLPGQPEAVARLRATFAGLYSLDVGEEGDQA IAEALAAPSRFVLKPQREGGGNNLYGEEMVQALKQLKDSEERASYILMEKIEPEPFENCLLRPGSPARVV QCISELGIFGVYVRQEKTLVMNKHVGHLLRTKAIEHADGGVAAGVAVLDNPYPV 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_000169
RefSeq Size:	1918
RefSeq ORF:	1422
Synonyms:	GSHS; HEL-S-64p; HEL-S-88n

View online »

Locus ID: 2937

UniProt ID: P48637, V9HWJ1

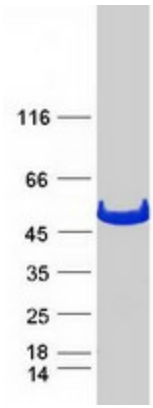
Cytogenetics: 20q11.22

Summary: Glutathione is important for a variety of biological functions, including protection of cells from oxidative damage by free radicals, detoxification of xenobiotics, and membrane transport. The protein encoded by this gene functions as a homodimer to catalyze the second step of glutathione biosynthesis, which is the ATP-dependent conversion of gamma-L-glutamyl-L-cysteine to glutathione. Defects in this gene are a cause of glutathione synthetase deficiency. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Glutathione metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified GSS protein (Cat# [TP303174]). The protein was produced from HEK293T cells transfected with GSS cDNA clone (Cat# [RC203174]) using MegaTran 2.0 (Cat# [TT210002]).