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Product datasheet for PH302194

GNPDA2 (NM_138335) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GNPDA2 MS Standard C13 and N15-labeled recombinant protein (NP_612208)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202194
Predicted MW:	30.9 kDa
Protein Sequence:	>RC202194 protein sequence Red=Cloning site Green=Tags(s) MRLVILDNYDLASEWAAKYICNRIIQFKPGQDRYFTLGLPTGSTPLGCYKKLIEYHKNGHLSFKYVKTFN MDEYVGLPRNHPESYHSYMWNNFFKHIDIDPNNAHILDGNAADLQAECDAFENKIKEAGGIDLFVGGIGP DGHIAFNEPGSSLVSRTRLKTLAMDTILANAKYFDGDLSKVSTMALTVGVGTVMDAREVMILITGAHKAF ALYKAIEGVNHMWTVSAFQQHPRTIFVCDEDATLELRVKTVKYFKGLMHVHNKLVDPLFSMKDGN 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_612208
RefSeq Size:	2313
RefSeq ORF:	420
Synonyms:	GNP2; SB52
Locus ID:	132789
UniProt ID:	Q8TDQ7, A0A024R9X5

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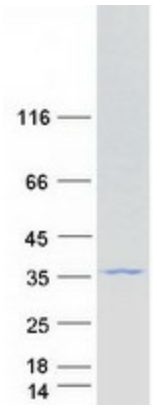
Cytogenetics: 4p12

Summary: The protein encoded by this gene is an allosteric enzyme that catalyzes the reversible reaction converting D-glucosamine-6-phosphate into D-fructose-6-phosphate and ammonium. Variations of this gene have been reported to be associated with influencing body mass index and susceptibility to obesity. A pseudogene of this gene is located on chromosome 9. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Aug 2012]

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified GNPDA2 protein (Cat# [TP302194]). The protein was produced from HEK293T cells transfected with GNPDA2 cDNA clone (Cat# [RC202194]) using MegaTran 2.0 (Cat# [TT210002]).