

Product datasheet for PH311132

GLUD1 (NM_005271) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GLUD1 MS Standard C13 and N15-labeled recombinant protein (NP_005262)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211132
Predicted MW:	61.4 kDa
Protein Sequence:	>RC211132 representing NM_005271 Red=Cloning site Green=Tags(s)

MYRYLGEALLLSRAGPAALGSASADSAALLGWARGQPAAPQPGLALAARRHYSEAVADREDDPNFFKMV
EGFFDRGASIVEDKLVEDLRTRESEEQKRNRVGRILRIKPCNHVLSLSPFIRRDDGSWEVIEGYRAQHS
QHRTPCGGIRYSTDVSVEVKALASLMTYKCAVVDVPPFGGAKAGVKINPKNYTDNELEKITRRFTMELA
KKGFIPGIDVPAPDMSTGEREMSWIADTYASTIGHYDINAHACVTGKPI SQGGI HGRISATGRGVFHGI
ENFINEASYMSILGMTPGFGDKTFVVQFGNVGLHSMRYLHRFGAKCIAVGESDGSIWNPDGIDPKELED
FKLQHGSI LGFPKAKPYEGSILEADCDILIPAASEKQLTKSNAPRVKAKIIAEGANGPTTPEADKIFLER
NIMVIPDLYLNAGGVTVSYFEWLKLNHVSYGRLTFKYERDSNYHLLMSVQESLERKFGKHGGTIPIVPT
AEFQDRISGASEKDIVHSGLAYTMERSARQIMRTAMKYNLGLDLRTAAYVNAIEKVFKVYNEAGVTFT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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:	<u>NP_005262</u>
RefSeq Size:	3051
RefSeq ORF:	1674



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Synonyms: GDH; GDH1; GLUD

Locus ID: 2746

UniProt ID: [P00367](#), [E9KL48](#)

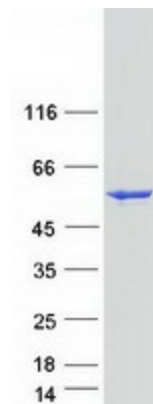
Cytogenetics: 10q23.2

Summary: This gene encodes glutamate dehydrogenase, which is a mitochondrial matrix enzyme that catalyzes the oxidative deamination of glutamate to alpha-ketoglutarate and ammonia. This enzyme has an important role in regulating amino acid-induced insulin secretion. It is allosterically activated by ADP and inhibited by GTP and ATP. Activating mutations in this gene are a common cause of congenital hyperinsulinism. Alternative splicing of this gene results in multiple transcript variants. The related glutamate dehydrogenase 2 gene on the human X-chromosome originated from this gene via retrotransposition and encodes a soluble form of glutamate dehydrogenase. Related pseudogenes have been identified on chromosomes 10, 18 and X. [provided by RefSeq, Jan 2016]

Protein Families: Druggable Genome

Protein Pathways: Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, D-Glutamine and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism

Product images:



Coomassie blue staining of purified GLUD1 protein (Cat# [TP311132]). The protein was produced from HEK293T cells transfected with GLUD1 cDNA clone (Cat# [RC211132]) using MegaTran 2.0 (Cat# [TT210002]).