

Product datasheet for PH323838

BPGM (NM_001724) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	BPGM MS Standard C13 and N15-labeled recombinant protein (NP_001715)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223838
Predicted MW:	30 kDa
Protein Sequence:	>RC223838 protein sequence Red=Cloning site Green=Tags(s)
	MSKYKLIMLRHGEGAWNKENRFCSWVDQKLNSEGMEEARNCGKQLKALNFEFDLVFTSVLNRSIHTAWLI LEELGQEWVPVSSWRLNERHYGALIGLNREQMALNHGEEQVRLWRRSYNVTPPPPIEESHPHYQEIYNDR RYKVCVPLDQLPRSESLKDVLERLLPYWNERIAPEVLRGKTILISAHGNSRALLKHLEGISDEDIINI TLPTGVPILLELDENLRVAGPHQFLGDQEAIAAIAKKVEDQGKVKQAKK
	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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_001715
RefSeq Size:	1800
RefSeq ORF:	777
Synonyms:	DPGM; ECYT8
Locus ID:	669
UniProt ID:	P07738 , A0A024R782



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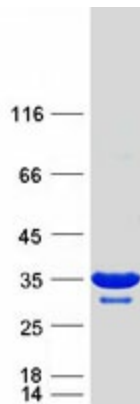
Cytogenetics: 7q33

Summary: 2,3-diphosphoglycerate (2,3-DPG) is a small molecule found at high concentrations in red blood cells where it binds to and decreases the oxygen affinity of hemoglobin. This gene encodes a multifunctional enzyme that catalyzes 2,3-DPG synthesis via its synthetase activity, and 2,3-DPG degradation via its phosphatase activity. The enzyme also has phosphoglycerate phosphomutase activity. Deficiency of this enzyme increases the affinity of cells for oxygen. Mutations in this gene result in hemolytic anemia. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Sep 2009]

Protein Families: Druggable Genome

Protein Pathways: Glycolysis / Gluconeogenesis, Metabolic pathways

Product images:



Coomassie blue staining of purified BPGM protein (Cat# [TP323838]). The protein was produced from HEK293T cells transfected with BPGM cDNA clone (Cat# [RC223838]) using MegaTran 2.0 (Cat# [TT210002]).