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Datasheet for ABIN1692049

BPGM Protein (AA 2-259) (His tag)

Overview

Quantity:	50 µg
Target:	BPGM
Protein Characteristics:	AA 2-259
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BPGM protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Bisphosphoglycerate Mutase/BPGM (C-6His)
Sequence:	SKYKLIMLRH GEGAWNKENR FCSWVDQKLN SEGMEEARNC GKQLKALNFE FDLVFTSVLN RSIHTAWLIL EELGQEWVPV ESSWRLNERH YGALIGLNRE QMALNHGEEQ VRLWRRSYNV TPPPIEESH PYYQEYNDRR YKVCVPLDQ LPRSESLKDV LERLLPYWNE RIAPEVLRGK TILISAHGNS SRALLKHLEG ISDEDIINIT LPTGVPILLE LDENLRAVGP HQFLGDQEI QAAIKKVEDQ GKVKQAKKLE HHHHHH
Characteristics:	Recombinant Human Bisphosphoglycerate Mutase/BPGM is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Lys259) of Human BPGM fused with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	BPGM
Alternative Name:	Bisphosphoglycerate Mutase/BPGM (BPGM Products)
Sub Type:	Fusionprotein
Background:	<p>Bisphosphoglycerate Mutase (BPGM) is a member of the Phosphoglycerate Mutase family and BPG-Dependent PGAM subfamily. BPGM is a multifunctional enzyme. BPGM catalyzes 2,3-DPG synthesis via its synthetase activity, and 2,3-DPG degradation via its phosphatase activity. It also has phosphoglycerate phosphomutase activity. BPGM plays a major role in regulating hemoglobin oxygen affinity by controlling the levels of 2,3-bisphosphoglycerate (2,3-BPG). Deficiency of BPGM increases the affinity of cells for oxygen and result in hemolytic anemia.</p> <p>Alternative Names: Bisphosphoglycerate Mutase, BPGM, 2,3-Bisphosphoglycerate Mutase Erythrocyte, 2,3-Bisphosphoglycerate Synthase, 2,3-Diphosphoglycerate Mutase, DPGM, BPG-Dependent PGAM, BPGM</p>
Molecular Weight:	31 kDa
UniProt:	P07738

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 1 mM DTT, pH 8.0 .
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at < -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>

Handling

Expiry Date: 6 months