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Phosphoglucomutase-2 Recombinant Protein

CATALOG NUMBER: 92-619

Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	Met1-Asp612
FUSION TAG:	N-6 His tag
APPLICATIONS:	This recombinant protein can be used for biological assays. For research use only.

Properties

PURITY:	Greater than 95% as determined by reducing SDS-PAGE. Endotoxin level less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
PREDICTED MOLECULAR WEIGHT:	70.5 kD
PHYSICAL STATE:	Lyophilized
BUFFER:	Lyophilized from a 0.2 um filtered solution of 20mM Tris 200mM NaCl pH8.0. It is not recommended to reconstitute to a concentration less than 100 ug/ml. Dissolve the lyophilized protein in ddH2O.
STORAGE CONDITIONS:	Lyophilized protein should be stored at -20˚C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7˚C for 2-7 days. Aliquots of reconstituted samples are stable at -20˚C for 3 months.

Additional Info

ALTERNATE NAMES:	Phosphoglucomutase-2, PGM 2, Glucose phosphomutase 2, Phosphodeoxyribomutase, Phosphopentomutase, PGM2
ACCESSION NO.:	Q96G03

Background

Phosphoglucomutase-2 (PGM2) is a member of PGM family, which catalyzes the inter-conversion of sugar phosphates and participates in anabolic and catabolic reactions. When cells are grown in glucose, PGM catalyzes the conversion of glucose-6-phosphate to glucose-1-phosphate an important precursor required for the synthesis of UDP glucose and trehalose. PGM2 catalyzes the conversion of the nucleoside breakdown products ribose-1-phosphate and deoxyribose-1-phosphate to the corresponding 5-phosphopentoses, and it may also catalyze the interconversion of glucose-1-phosphate and glucose-6-phosphate. But this protein has low glucose 1,6-bisphosphate synthase activity.

FOR RESEARCH USE ONLY

December 14, 2016