

Product datasheet

Recombinant Human PGAM2 protein ab123178

1 Image

Description

Product name	Recombinant Human PGAM2 protein
Purity	> 95 % SDS-PAGE. ab123178 is purified using conventional chromatography.
Expression system	Escherichia coli
Accession	<u>P15259</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHH SSGLVPRGSH MATHRLVMVR HGESTWNQEN RFCGWFDAEL SEKGTEEAKR GAKAIKDAKM EFDICYTSVL KRAIRTLWAI LDGTDQMWLP VVRTWRLNER HYGGLTGLNK AETAAKHGEE QVKIWRRSFD IPPPPMDEKH PYNSISKER RYAGLKPGEI PTCESLKDTI ARALPFWNEE IVPQIKAGKR VLIAAHGNSL RGMVKHLEGM SDQAIMELNL PTGIPVYEL NKELKPTKPM QFLGDEETVR KAMEAVAAQG KAK
Predicted molecular weight	31 kDa including tags
Amino acids	1 to 253
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab123178** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	MALDI-TOF
Form	Liquid
Additional notes	BRENDA (Enzyme Commission number) EC=3.1.3.13; EC=5.4.2.1; EC=5.4.2.4.

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.02% DTT, Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

Function

Interconversion of 3- and 2-phosphoglycerate with 2,3-bisphosphoglycerate as the primer of the reaction. Can also catalyze the reaction of EC 5.4.2.4 (synthase) and EC 3.1.3.13 (phosphatase), but with a reduced activity.

Tissue specificity

In mammalian tissues there are two types of phosphoglycerate mutase isozymes: type-M in muscles and type-B in other tissues.

Involvement in disease

Defects in PGAM2 are the cause of glycogen storage disease type 10 (GSD10) [MIM:261670]. A metabolic disorder characterized by myoglobinuria, increased serum creatine kinase levels, decreased phosphoglycerate mutase activity, myalgia, muscle pain, muscle cramps and exercise intolerance.

Sequence similarities

Belongs to the phosphoglycerate mutase family. BPG-dependent PGAM subfamily.

Images



15% SDS-PAGE analysis of ab123178 (3ug)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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