



## 2-Phosphoglycerate Colorimetric/Fluorometric Assay Kit

### Product Information

---

#### Cat.No.

Kit-0005

---

#### Product Overview

2-Phosphoglycerate Assay Kit (Colorimetric/Fluorometric) is used for measuring 2-Phosphoglycerate using colorimetric/fluorometric methods.

---

#### Description

2-phosphoglycerate (2PG) is an important intermediate in the glycolysis pathway. 2-Phosphoglycerate is converted by enolase to phosphoenolpyruvate (PEP) which is a key step from glucose to pyruvate. Aberrant glycolytic metabolism is a highly studied and potentially critical mechanism for ATP generation in cancer cells (The Warburg effect). Measurement of intracellular 2PG levels is a useful tool for analyzing the glycolytic pathway and its relevance to cancer research. 2-Phosphoglycerate Assay Kit (Colorimetric/ Fluorometric) is a sensitive, fast and easy-to-use kit. In this assay, 2PG is converted by Enzyme Mix to PEP, which is further converted to pyruvate. The pyruvate is oxidized to generate color (OD 570 nm) and fluorescence (Ex/Em = 535/587 nm). The colored product or fluorescence intensity is proportional to 2PG level. This assay kit can detect 2PG level below 20 pmol and can be used for a variety of sample types.

---

#### Applications

Measurement of 2-Phosphoglycerate in various tissues/cells  
Analysis of carbohydrate metabolism and cell signaling  
Cancer research

---

#### Usage

For research use only (RUO)

---

#### Storage

Store kit at -20°C, protected from light. Warm 2PG Assay Buffer to room temperature before use. Briefly centrifuge small vials prior to opening.

---

#### Kit Components

---



CREATIVE BIOMART®  
Assay Kit

## 2-Phosphoglycerate Colorimetric/Fluorometric Assay Kit

2PG Assay Buffer 25 ml 2PG Probe (in DMSO) 0.2 ml 2PG Enzyme Mix (Lyophilized) 1 vial 2PG Converter (Lyophilized) 1 vial 2PG Developer (Lyophilized) 1 vial 2PG Standard (Lyophilized) 1 vial

---

**Detection method** Colorimetric, Fluorometric

---

**Compatible Sample Types**

Cell culture, Tissue samples

---

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.org](mailto:info@creative-biomart.org)

Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA