CREATIVE BIOMART®
Assay Kit

Human Enolase ? Inhibitor Screening Kit (Colorimetric)

Product Information

Cat

Kit-2355

Cat.No.

Kit-2355

Product Overview

Enolase (EC 4.2.1.11), also called 2-Phospho-D-glycerate hydrolase, is a key enzyme in glycolysis. It converts 2-phosphoglycerate into phosphoenolpyruvate (PEP). It also catalyzes the reverse reaction, PEP to 2-phosphoglycerate under anabolic conditions during gluconeogenesis. In mammals, three genes encode for the Enolase α, β and γ isoforms. These isoforms combine together to form both homo and heterodimeric complexes resulting in five isozymes, three of which are commonly found in human tissues. Enolase α, also called enolase 1, exists in variety of tissues which can undergo glycolysis. Besides its role in glycolysis, increased Enolase α activity is associated with tumor invasion and metastasis; therefore, screening for novel and specific inhibitor of enolase α inhibitor may be of great interest for tumor treatment. In Human Enolase α Inhibitor Screening Kit, Enolase α catalyzes the conversion of 2-phosphoglycerate to phosphoenolpyruvate, which is subsequently used to generate an intermediate product. The intermediate product stoichiometrically reacts with OxiRed; probe generating a colorimetric signal (OD 570 nm). In the presence of Enolase α inhibitor, the reaction is impeded. An enolase α Inhibitor Control is included to compare the efficacy of the sample inhibitors. The assay is simple, fast, high-throughput adaptable and can be completed in less than 1 hr.

Applications

Screening/characterizing/studying potential inhibitors of Human Enolase α.

Storage

-20°C

Shipping

Gel Pack

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Size	
100 assays	
Kit Components	
Enolase Assay Buffer; OxiRed Probe; Enolase Substrate; Enolase Converter; Enolase Developer; Enolase a; Enolase Inhibitor Control	
Target Species	
Human	
Detection method	Absorbance (OD 570 nm)
Features & Benefits	
Rapid and easy-to-use.; High-throughput adaptable; This assay kit can be used for initial screening of compounds as anti-Enolase	

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