

Human Enolase α Inhibitor Screening Kit (Colorimetric)

Cat. No. Kit-2355 Lot. No. (See product label)

SPECIFICATION

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 .
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Storage	-20°C
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Shipping	Gel Pack
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Size	100 assays
Kit Components	Enolase Assay Buffer; OxiRed Probe; Enolase Substrate; Enolase Converter; Enolase Developer; Enolase α ; 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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