

## Etomoxir

货号: E7613

储存条件: 粉末-20°C 可保存 3 年; 液体-80°C 可保存 12 月。

## 产品描述

Oxidation of long-chain fatty acids inside of the mitochondrial matrix provides an essential source of energy for some cells. Since long-chain fatty acids cannot freely pass into the mitochondrial matrix, they rely on a protein called carnitine palmitoyltransferase I (CPT1) for transport. CPT1 has been identified as a potential therapeutic target for a growing list of cancers that include breast cancer, prostate cancer, glioblastoma, colon cancer, gastric cancer, myeloma, and others. Etomoxir is an inhibitor of carnitine palmitoyltransferase I (CPT1). Etomoxir at  $10^{-6}$  M prevented the palmitate-induced depression of function in heart but did not decrease myocardial long chain acylcarnitine or long chain acyl-CoA levels, and oxygen consumption per unit work was decreased during reperfusion recovery, and ATP and creatine-phosphate levels were significantly higher after reperfusion. 200  $\mu$ M of etomoxir caused a significant reduction in cellular proliferation rate in BT549 cells, while 10  $\mu$ M did not. 200  $\mu$ M etomoxir treatment, however, significantly impaired mitochondrial respiration in BT549 cells, and a 65% decrease in basal respiration and a 65% decrease in maximal respiratory capacity after treating cells with 200  $\mu$ M etomoxir was measured. Non-insulin-dependent diabetes mellitus (NIDDM) patients who received oral etomoxir treatment twice daily at the dose of 25 mg to 100 mg showed dose-dependent decrease in fasting blood glucose.

## 产品信息

CAS 号	124083-20-1	
分子式	C <sub>17</sub> H <sub>23</sub> ClO <sub>4</sub>	
分子量	326.82	
溶解度	DMSO	210.0 mg/mL (642.6 mM)
	Water	insoluble

