Creative Enzymes®

5-Lipoxygenase from human, Recombinant

Cat. No. NATE-1249

Lot. No. (See product label)

Introduction

Description	Arachidonate 5-lipoxygenase, also known as ALOX5, 5-lipoxygenase, 5-LOX, or 5-LO, is an enzyme that in humans is encoded by the ALOX5 gene. Arachidonate 5-lipoxygenase is a member of the lipoxygenase family of enzymes. It transforms EFAs into leukotrienes and is a current target for pharmaceutical intervention in a number of diseases.
Synonyms	Arachidonate 5-lipoxygenase; ALOX5; 5-lipoxygenase; 5-LOX; 5-LO; 5LPG; LOG5

Product Information

Species	Human
Source	S9 insect cells
Form	A solution in 100 mM Tris-HCl, pH 8.0, containing 5 mM EGTA, 1mM CaCl2, and 30% glycerol
EC Number	EC 1.13.11.34
CAS No.	80619-02-9
Molecular Weight	78 kDa
Activity	1,259.96 U/ml
Unit Definition	One unit of enzyme consumes one nmol of oxygen per minute at 25°C in 50 mM Tris-HCl buffer, pH 7.5, containing 100 μM arachidonate, 2 mM CaCl2, 1 mM ATP.

Storage and Shipping Information

Storage	at -80°C
Stability	As supplied, 6 months from the QC date provided on the Certificate of Analysis, when stored properly