

arachidonate 5-lipoxygenase

Cat. No. EXWM-0553

Lot. No. (See product label)

Introduction

Description

Arachidonate 5-lipoxygenase, also known as ALOX5, 5-lipoxygenase, 5-LOX, or 5-LO, is a non-heme iron-containing enzyme (EC 1.13.11.34) that in humans is encoded by the ALOX5 gene. Arachidonate 5-lipoxygenase is a member of the lipoxygenase family of enzymes. It transforms EFA substrates into leukotrienes as well as a wide range of other biologically active products. ALOX5 is a current target for pharmaceutical intervention in a number of diseases.

Synonyms

leukotriene-A4 synthase; Δ 5-lipoxygenase; 5 Δ -lipoxygenase; arachidonic 5-lipoxygenase; arachidonic acid 5-lipoxygenase; C-5-lipoxygenase; LTA synthase; leukotriene A4 synthase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.13.11.34

CAS No. 80619-02-9

Reaction arachidonate + O₂ = leukotriene A4 + H₂O (overall reaction); (1a) arachidonate + O₂ = (6E,8Z,11Z,14Z)-(5S)-5-hydroperoxyicosa-6,8,11,14-tetraenoate; (1b) (6E,8Z,11Z,14Z)-(5S)-5-hydroperoxyicosa-6,8,11,14-tetraenoate = leukotriene A4 + H₂O

Notes This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.