

hydroperoxy icosatetraenoate isomerase

Cat. No. EXWM-5548

Lot. No. (See product label)

Introduction

Description

Binds Fe²⁺. The enzyme from mammals accepts a range of hydroperoxyicosatetraenoates producing one or several different hydroxyepoxyicosatrienoates. The human enzyme has highest activity with (12R)-HPETE producing (5Z,8R,9E,11R,12R,14Z)-8-hydroxy-11,12-epoxyicosa-5,9,14-trienoate, followed by (12S)-HPETE producing (5Z,8Z,10R,11S,12S,14Z)-10-hydroxy-11,12-epoxyicosa-5,8,14-trienoate and (5Z,8R,9E,11S,12S,14Z)-8-hydroxy-11,12-epoxyicosa-5,9,14-trienoate. The mouse enzyme has highest activity with (8S)-HPETE, producing (5Z,8S,9S,10R,11Z,14Z)-10-hydroxy-8,9-epoxyicosa-5,11,14-trienoate. The enzymes also have the activity of EC 4.2.1.152, hydroperoxy icosatetraenoate dehydratase.

Synonyms

epidermal lipoxygenase-3 (ambiguous); eLOX3 (ambiguous)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 5.4.4.7

Reaction

a hydroperoxyicosatetraenoate = a hydroxyepoxyicosatrienoate

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.