

## 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 CaCl<sub>2</sub>, 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 CaCl<sub>2</sub>, 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