

Datasheet for ABIN935606 **ALOX5 Protein**



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Overview

Quantity:	500 units
Target:	ALOX5
Origin:	Human
Source:	Baculovirus
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	<p>Purified recombinant Human 5-Lipoxygenase protein</p> <p>Expression System: Baculovirus</p> <p>Bioactivity: 20 units/mg protein - One unit is defined as the amount of enzyme that consumes 1.0 nmol of oxygen per min at 25 °C in 50 mM Tris-HCl, 100 uM arachidonate, 2 mM CaCl₂, 1 mM ATP, 250 uM oxygen. Oxygen consumption can be measured using a oxygraph equipped with a Clark oxygen electrode.</p>
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Target Details

Target:	ALOX5
Alternative Name:	5-Lipoxygenase (ALOX5 Products)
Background:	5-lipoxygenase (5-LO) catalyzes the formation of 5(S)-HpETE from arachidonic acid and its subsequent conversion to leukotriene A ₄ . It is localized in the cytosol of resting human and rat peripheral blood neutrophils, whereas it is found in the nucleus in rat basophilic leukemia cells and human alveolar macrophages. Upon stimulation of the cell, 5-LO translocates to the

Target Details

nuclear membrane where it is found in association with 5-LO activating protein (FLAP) and with the 85 kDa cPLA2.

Alternative Names: 5-Lipoxygenase Antigen, 5 Lipoxygenase Recombinant Protein

Molecular Weight: 78 kDa

Application Details

Application Notes: Each Investigator should determine their own optimal working dilution for specific applications.

Restrictions: For Research Use only

Handling

Buffer: 50 mM Tris containing 0 mM EDTA, pH 8.0.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -80 °C