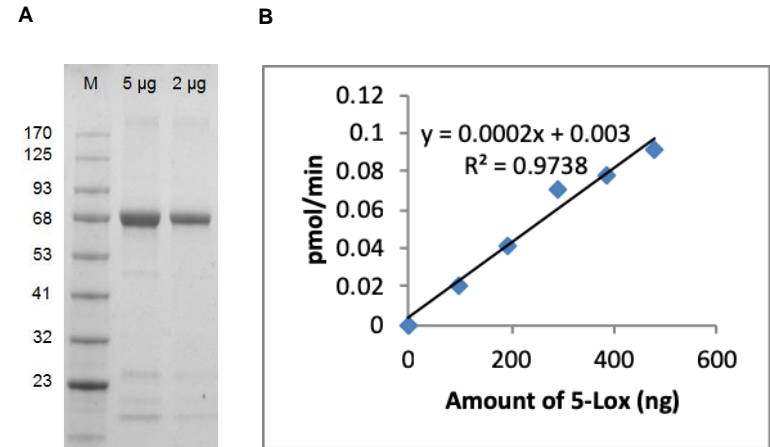


## 5-Lipoxygenase, Active, Human Recombinant

|                            |   |        |
|----------------------------|---|--------|
| <b>CATALOG NO:</b>         | P1373-200   | 200 µU |
| <b>ALTERNATE NAMES:</b>    | ALOX5, 5-LOX, Arachidonate 5-lipoxygenase   |        |
| <b>SOURCE:</b>             | <i>E. coli</i>  |        |
| <b>MOL. WEIGHT:</b>        | 68.3 kDa (1-579 aa + N-terminal His Tag)  |        |
| <b>PURITY:</b>             | ≥95% by SDS-PAGE  |        |
| <b>FORM:</b>               | Liquid  |        |
| <b>FORMULATION:</b>        | In 50 mM Tris, 5 mM β-Mercaptoethanol and 50% Glycerol  |        |
| <b>STORAGE CONDITIONS:</b> | For long term storage, aliquot and store at -20°C.  |        |
| <b>DESCRIPTION:</b>        | Lipoxygenases are non-heme iron-containing dioxygenases. These enzymes convert unsaturated fatty acids to epoxides, such as leukotrienes from arachidonic acid. They play an important role in cell proliferation, differentiation and inflammation; and have been implicated in inflammation and hyper proliferation mediated diseases like asthma, rheumatoid arthritis and cancer. |        |
| <b>SPECIFIC ACTIVITY:</b>  | ≥ 300 µU/mg   |        |
| <b>UNIT DEFINITION:</b>    | One unit is the amount of enzyme that will hydrolyze 1.0 µmole of arachidonic acid at pH 7.4 and 25 °C.   |        |



**Fig A. SDS-PAGE (4-20%) recombinant 5-Lox:** Recombinant protein loaded under reducing conditions and stained with Coomassie Blue. Lane M-MW marker, Lanes 2-3 5-Lox.

**Fig B. Enzyme activity assay:** The enzyme's activity was assayed using BioVision's Lipoxygenase Activity Assay Kit (Catalog Number: K978).

### RELATED PRODUCT:

- Lipoxygenase Activity Assay Kit (Fluorometric) (Cat. No. K978)
- 5-Lipoxygenase Inhibitor Screening Kit (Fluorometric) (Cat. No. K980)
- Recombinant *E. coli*, Taurine Dioxygenase (TauD) (Cat. No. P1071)
- Heme Oxygenase-1 Antibody (Cat. No. 3991)
- Heme Oxygenase-2 Antibody (Cat. No. 3992)

**FOR RESEARCH USE ONLY! Not to be used on humans.**