

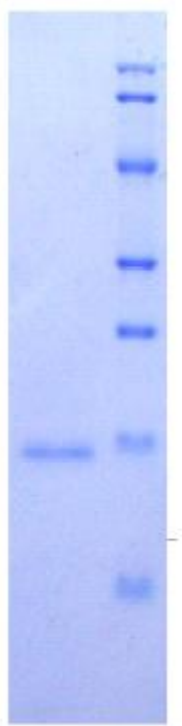


TEL:4006-871-227 Web:www.ybio.net Email:shybio@126.com

**YB91355Ra01**  
**Arachidonate-5-Lipoxygenase (ALOX5)**  
**Organism: Rattus norvegicus (Rat)**  
***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

4th Edition (Revised in August, 2012)



**[ DESCRIPTION ]**

**Rat ALOX5 kDa Protein Names:** Arachidonate-5-Lipoxygenase

**Synonyms:** ALOX5

94 **Species:** Rat

66.2

**Size:** 100µg

15% SDS-PAGE

45 **Source:** *Escherichia coli* -derived

**Subcellular Location:** Cytoplasm; Nucleus matrix; Nucleus membrane; Peripheral membrane protein.

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**[ PROPERTIES ]**

**Residues:** Leu373~Leu535 (Accession # P12527), with N-terminal His-Tag.

20 **Grade & Purity:** >95%, 20 kDa as determined by SDS-PAGE reducing conditions.



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**Formulation:** Supplied as lyophilized form in PBS, pH 7.4, containing 0.01% Sarcosyl, 5% sucrose.

14. **Endotoxin Level:** <1.0 EU per 1 $\mu$ g (determined by the LAL method).

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**Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

**Predicted Molecular Mass:** 20.1 kDa

**Predicted isoelectric point:** 5.8

### **[ PREPARATION ]**

Reconstitute in sterile PBS, pH7.2-pH7.4.



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## [ STORAGE AND STABILITY ]

**Storage:** Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months .

**Stability Test:** The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

## [ SEQUENCES ]

The target protein is fused with N-terminal His-tag, its sequence is listed below.

MGHHHHHHS G SEF-LVSEVFG IAMYRQLPAV HPLFKLLVAH VRFTIAINTK AREQLNCEYG LFDKANATGG GGHVQMVQRA  
VQDLTYSSLC FPEAIKARGM DNTEDIPYYF YRDDGLLWE AIQSFTTEVV SIYEDDQVV EEDQELQDFV KDVVYVGMRG  
RKASGFPKSI KSREKL

## [ REFERENCES ]

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2. Minor W., *et al.* (1993) Biochemistry 32:6320-6323.
3. Drazen J.M., *et al.* (1999) Nat. Genet. 22:168-170.
4. Coreno A., *et al.* (2000) J. Allergy Clin. Immunol. 106:500-506.