

**RPE837Hu01 100µg**

**Recombinant Aldehyde Dehydrogenase 7 Family, Member A1 (ALDH7A1)**

**Organism Species: Homo sapiens (Human)**

***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

## **[ PROPERTIES ]**

**Residues:** Met1~Gln539 (Accession # P49419),  
with N-terminal His-Tag.

**Host:** *E. coli*

**Subcellular Location:** Mitochondrion. Cytoplasm,  
cytosol.

**Purity:** >95%

**Endotoxin Level:** <1.0EU per 1µg  
(determined by the LAL method).

**Formulation:** Supplied as lyophilized form in PBS,  
pH7.4, containing 5% trehalose, 0.01% sarcosyl.

**Predicted isoelectric point:** 8.2

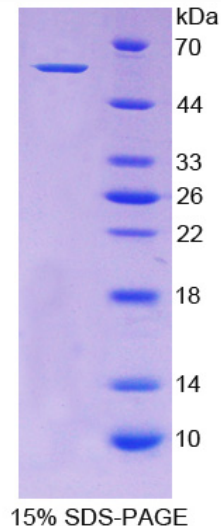
**Predicted Molecular Mass:** 59.7kDa

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

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

## **[ USAGE ]**

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



## **[ 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.

MGHHHHHSGS-MWRLPRALCV HAAKTSKLSG PWSRPAAFMS TLLINQPQYA  
WLKELGLREE NEGVYNGSWG GRGEVITYC PANNEPIARV RQASVADYEE TVKKAREAWK  
IWADIPAPKR GEIVRQIGDA LREKIQVLGS LVSLEMGKIL VEGVGEVQEY VDICDYAVGL  
SRMIGGPILP SERSGHALIE QWNPVGLVGI ITAFNFPVAV YGWNNIAIMI CGNVCLWKGA  
PTTSLISVAV TKIIAKVLED NKLPGAICSL TCGGADIGTA MAKDERVNLL SFTGSTQV GK  
QVGLMVQERF GRSLLELGGN NAIIFEDAD LSLVPSALF AAVGTAGQRC TTARRLFIHE  
SIHDEVVNRL KKAYAQIRVG NPWDPNVLYG PLHTKQAVSM FLGAVEEAKK EGGTVVYGGK  
VMDRPGNYVE PTIVTGLGHD ASIAHTETFA PILYVFKFKN EEEVFAWNNE VKQGLSSSIF  
TKDLGRIFRW LGPKGSDCGI VNVNIPTSGA EIGGAFGGEK HTGGGREGSGS DAWKQYMRRS  
TCTINYSKDL PLAQQIKFQ