

EPA656Hu61 100ug

**Eukaryotic Diamine Oxidase (DAO)** 

Organism Species: Homo sapiens (Human)

Instruction manual

FOR RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)



### [PROPERTIES]

Source: Eukaryotic expression.

Host: 293F cell

Residues: Glu20~Val751

Tags: N-terminal His Tag

Homology: Mouse 80%, rat 81%

Tissue Specificity: Kidney, Colon.

Subcellular Location: Secreted.

**Purity: >98%** 

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

Traits: Freeze-dried powder

Buffer Formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 5%Trehalose

and Proclin300.

Original Concentration: 200ug/mL

Applications: Positive Control; Immunogen; SDS-PAGE; WB.

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

Predicted isoelectric point: 6.6

Predicted Molecular Mass: 85.1kDa

Accurate Molecular Mass: 100kDa as determined by SDS-PAGE reducing

conditions.

#### Phenomenon explanation:

The possible reasons that the actual band size differs from the predicted are as follows:

- 1. Splice variants: Alternative splicing may create different sized proteins from the same gene.
- 2. Relative charge: The composition of amino acids may affects the charge of the protein.
- 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.
- 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.
- 5. Polymerization of the target protein: Dimerization, multimerization etc.

## [USAGE]

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

## [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. 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. The loss rate is less than 5% within the expiration date under appropriate storage condition.

# [SEQUENCE]

```
E PSPGTLPRKA GVFSDLSNOE LKAVHSFLWS
KKELRLOPSS TTTMAKNTVF LIEMLLPKKY HVLRFLDKGE RHPVREARAV
IFFGDQEHPN VTEFAVGPLP GPCYMRALSP RPGYQSSWAS RPISTAEYAL
LYHTLOEATK PLHOFFLNTT GFSFODCHDR CLAFTDVAPR GVASGORRSW
LIIORYVEGY FLHPTGLELL VDHGSTDAGH WAVEOVWYNG KFYGSPEELA
RKYADGEVDV VVLEDPLPGG KGHDSTEEPP LFSSHKPRGD FPSPIHVSGP
RLVQPHGPRF RLEGNAVLYG GWSFAFRLRS SSGLQVLNVH FGGERIAYEV
SVOEAVALYG GHTPAGMOTK YLDVGWGLGS VTHELAPGID CPETATFLDT
FHYYDADDPV HYPRALCLFE MPTGVPLRRH FNSNFKGGFN FYAGLKGOVL
VLRTTSTVYN YDYIWDFIFY PNGVMEAKMH ATGYVHATFY TPEGLRHGTR
LHTHLIGNIH THLVHYRVDL DVAGTKNSFO TLOMKLENIT NPWSPRHRVV
QPTLEQTQYS WERQAAFRFK RKLPKYLLFT SPQENPWGHK RTYRLQIHSM
ADQVLPPGWQ EEQAITWARY PLAVTKYRES ELCSSSIYHQ NDPWHPPVVF
EQFLHNNENI ENEDLVAWVT VGFLHIPHSE DIPNTATPGN SVGFLLRPFN
FFPEDPSLAS RDTVIVWPRD NGPNYVORWI PEDRDCSMPP PFSYNGTYRP
V
```

# [ IDENTIFICATION ]

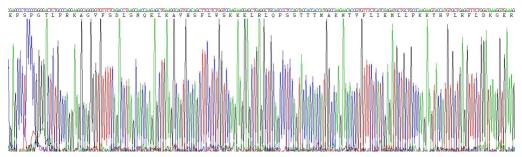


Figure 1. Gene Sequencing (extract)

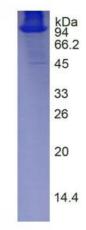


Figure 2. SDS-PAGE

# [ IMPORTANT NOTE ]

The kit is designed for in vitro and research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.