

RPE251Hu01 100µg Recombinant 4-Hydroxyphenylpyruvate Dioxygenase (HPD) Organism Species: *Homo sapiens (Human)* Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

Cond-Clone Corp.

[PROPERTIES]

Source: Prokaryotic expression Host: *E.coli* Residues: Thr2-Met393 Tags: N-terminal His Tag Subcellular Location: Membrane, Cytoplasm, Golgi apparatus, Endoplasmic reticulum lumen Purity: > 90% Traits: Freeze-dried powder Buffer formulation: 100mMNaHCO₃, 500mMNaCl, pH8.3, containing 0.01% SKL, 5% Trehalose. Original Concentration: 200µg/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: 6.5 Predicted Molecular Mass: 48.5kDa Accurate Molecular Mass: 44kDa 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.

[<u>USAGE</u>]

Reconstitute in ddH_2O 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

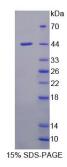
obvious degradation and precipitation were observed. The loss rate is less than 5% within the

expiration date under appropriate storage condition.

[<u>SEQUENCE</u>]

```
TTYSDKGAK PERGRFLHFH SVTFWVGNAK QAASFYCSKM GFEPLAYRGL
ETGSREVVSH VIKQGKIVFV LSSALNPWNK EMGDHLVKHG DGVKDIAFEV
EDCDYIVQKA RERGAKIMRE PWVEQDKFGK VKFAVLQTYG DTTHTLVEKM
NYIGQFLPGY EAPAFMDPLL PKLPKCSLEM IDHIVGNQPD QEMVSASEWY
LKNLQFHRFW SVDDTQVHTE YSSLRSIVVA NYEESIKMPI NEPAPGKKKS
QIQEYVDYNG GAGVQHIALK TEDIITAIRH LRERGLEFLS VPSTYYKQLR
EKLKTAKIKV KENIDALEEL KILVDYDEKG YLLQIFTKPV QDRPTLFLEV
IQRHNHQGFG AGNFNSLFKA FEEQNLRGN LTNMETNGVV PGM
```

[IDENTIFICATION]



[IMPORTANT NOTE]

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