

RPF173Hu01 1mg
Recombinant 17-Beta-Hydroxysteroid Dehydrogenase Type 3 (HSD17b3)
Organism Species: Homo sapiens (Human)
Instruction manual

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

12th Edition (Revised in Aug, 2016)

[**PROPERTIES**]

Source: Prokaryotic expression.

Host: *E. coli*

Residues: Met1~Arg310

Tags: N-terminal His-Tag

Tissue Specificity: Testis.

Subcellular Location: Endoplasmic reticulum membrane.

Purity: >90%

Traits: Freeze-dried powder

Buffer formulation: 100mM NaHCO₃, 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.

Original Concentration: 200ug/mL

Applications: SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.

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

Predicted isoelectric point: 8.9

Predicted Molecular Mass: 38.2kDa

Accurate Molecular Mass: 33kDa 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 100mM NaHCO₃, 500mM NaCl (pH8.3) 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]

```
MGDVLEQFFI LTGLLVCLAC LAKCVRFSRC VLLNYWKVLP KSFLRSMGQW
AVITGAGDGI GKAYSFELAK RGLNVVLISR TLEKLEAIAT EIERTTGRSV
KIIQADFTKD DIYEHIKEKL AGLEIGILVN NVGMLPNLLP SHFLNAPDEI
QSLIHCNITS VVKMTQLILK HMESRQKGLI LNISSGIALF PWPLYSMYSA
SKAFVCAFSK ALQEEYKAKE VIIQVLTPYA VSTAMTKYLN TNVITKTADE
FVKESLNYVT IGGETCGCLA HEILAGFLSL IPANAFYSGA FQRLLLTHYV
AYLKLNTKVR
```

[IDENTIFICATION]

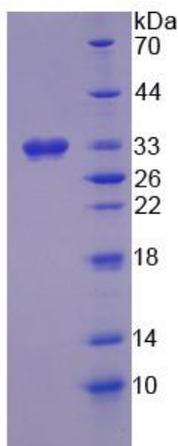


Figure 1. SDS-PAGE