

# Recombinant human 17 beta-HSD8/HSD17B8 protein

Catalog Number: ATGP1001

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-261aa

### UniProt No.

Q92506

### NCBI Accession No.

NP\_055049.1

### Alternative Names

Hydroxysteroid 17-beta dehydrogenase 8,(3R)-3-hydroxyacyl-CoA dehydrogenase, FABGL, HKE6, RING2, SDR30C1, 17-beta-hydroxysteroid dehydrogenase 8, 17-beta-HSD 8, HSD17B8, 3-ketoacyl-[acyl-carrier-protein, reductase alpha subunit, KAR alpha subunit, 3-oxoacyl-[acyl-carrier-protein, reductase, Estradiol 17-beta-dehydrogenase 8, Protein Ke6, Ke6, Short chain dehydrogenase/reductase family 30C member 1, Testosterone 17-beta-dehydrogenase 8, H2-KE6

## PRODUCT SPECIFICATION

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### Molecular Weight

29.1 kDa (281aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 150mM NaCl

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

HSD17B8, also known as estradiol 17-beta-dehydrogenase 8, belongs to the short-chain dehydrogenases/reductases (SDR) family. In mice, the Ke6 protein is a 17-beta-hydroxysteroid dehydrogenase

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that can regulate the concentration of biologically active estrogens and androgens. It is preferentially an oxidative enzyme and inactivates estradiol, testosterone, and dihydrotestosterone. However, the enzyme has some reductive activity and can synthesize estradiol from estrone. It may play a role in biosynthesis of fatty acids in mitochondria. Recombinant human HSD17B8 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

## Amino acid Sequence

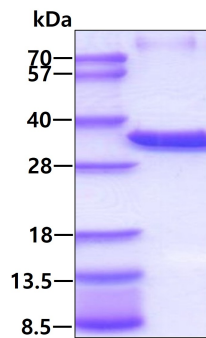
<MGSSHHHHHH SSGLVPRGSH> MASQLQNRLR SALALVTGAG SGIGRAVSVR LAGEGATVAA CDLDRAAAQE  
TVRLLGGPGS KEGPPRGNHA AFQADVSEAR AARCLLEQVQ ACFSRPPSVV VSCAGITQDE FLLHMSEDDW DKVIAVNLKG  
TFLVTQAAAQ ALVSNGCRGS IINISSIVGK VGNVGQTNYA ASKAGVIGLT QTAARELGRH GIRCNSVLPG FIATPMTQKV  
PQKVVDKITE MIPMGHLGDP EDVADVVAFL ASED SGYITG TSVEVTGGLF M

## General References

Ando A., et al. (1996) Genomics. 35:600-602  
Rotinen M., et al. (2009) Endocrinol 200:85-92

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.