Recombinant human 17 beta-HSD8/HSD17B8 protein

Catalog Number: ATGP1001

PRODUCT INFORMATION

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

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

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

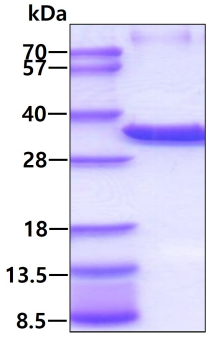
<MGSSHHHHHH SSGLVPRGSH> MASQLQNRLR SALALVTGAG SGIGRAVSVR LAGEGATVAA CDLDRAAAQE TVRLLGGPGS KEGPPRGNHA AFQADVSEAR AARCLLEQVQ ACFSRPPSVV VSCAGITQDE FLLHMSEDDW DKVIAVNLKG TFLVTQAAAQ ALVSNGCRGS IINISSIVGK VGNVGQTNYA ASKAGVIGLT QTAARELGRH GIRCNSVLPG FIATPMTQKV PQKVVDKITE MIPMGHLGDP EDVADVVAFL ASEDSGYITG TSVEVTGGLF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

General References

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.