Recombinant human 17 beta-HSD10/HSD17B10 protein

Catalog Number: ATGP0518

PRODUCT INFORMATION

Expression system
E.coli

Domain
12-261aa

UniProt No.
Q99714

NCBI Accession No.
NP_004484.1

Alternative Names
Hydroxysteroid 17-beta dehydrogenase 10, HADH2, MRXS10, ERAB, SCHAD, MHBD, 17b-HSD10, ABAD, SDR5C1, MRPP2, CAMR, Hydroxyacyl-Coenzyme A dehydrogenase, type II, mental retardation, X-linked, syndromic 10, Hydroxysteroid (17-beta) dehydrogenase 10, type 10 17b-HSD, type 10 17beta-hydroxysteroid dehydrogenase, AB-binding alcohol dehydrogenase, short chain dehydrogenase/reductase family 5C, member 1, mitochondrial RNase P subunit 2

PRODUCT SPECIFICATION

Molecular Weight
28.1 kDa (271aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, and 100mM 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
HSD17B10 is a member of the short-chain dehydrogenase/reductase superfamily. This mitochondrial protein catalyzes the oxidation of a wide variety of fatty acids, alcohols, and steroids. HSD17B10 plays an important role

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in processing steroid hormones and fats, and also helps break down the protein building block (amino acid) isoleucine. This enzyme is also necessary for several chemical reactions involving female sex hormones (estrogens) and male sex hormones (androgens). It is essential for maintaining appropriate levels of male and female sex hormones. This protein may contribute to the neuronal dysfunction associated with Alzheimer disease. Recombinant HSD17B10 protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

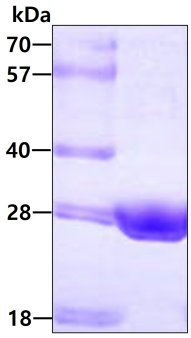
<MGSSHHHHHH SSGLVPRGSH> MVAVITGGAS GLGLATAERL VGQGASAVLL DLPNSGGEAQ AKKLGNNCVF APADVTSEKD VQTALALAKG KFGRVDVAVN CAGIAVASKT YNLKKGQTHT LEDFQRVLDV NLMGTFNVIR LVAGEMGQNE PDQGGQRGVI INTASVAAFE GQVGQAAYSA SKGGIVGMTL PIARDLAPIG IRVMTIAPGL FGTPLLTSLP EKVCNFLASQ VPFPSRLGDP AEYAHLVQAI IENPFLNGEV IRLDGAIRMQ P

General References

Hoizmann J., et al. (2008) Cell. 135(3):462-74.
Yan SD., et al. (1997) Nature. 389(6652):689-95.

DATA

SDS-PAGE



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