Recombinant human 17 beta-HSD14/HSD17B14 protein

Catalog Number: ATGP0798

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-270aa

UniProt No.
Q9BPX1

NCBI Accession No.
NP_057330

Alternative Names
Hydroxysteroid 17-beta dehydrogenase 14, 17-beta-hydroxysteroid dehydrogenase 14, 17-beta-hydroxysteroid dehydrogenase DHRS10, Dehydrogenase/reductase SDR family member 10, DHRS10, Retinal short-chain dehydrogenase/reductase retSDR3, SDR3, Short chain dehydrogenase/reductase family 47C member 1, SDR47C1

PRODUCT SPECIFICATION

Molecular Weight
32.4 kDa (306aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

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
HSD17B14, also known as 17-beta-hydroxysteroid dehydrogenase 14, belongs to the 17-beta-HSD family of proteins, which regulate the availability of steroids within various tissues rough out the body. It exists as a homotetramer that localizes to the cytoplasm and is highly expressed in brain, placenta, liver and kidney.

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Recombinant human HSD17B14 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

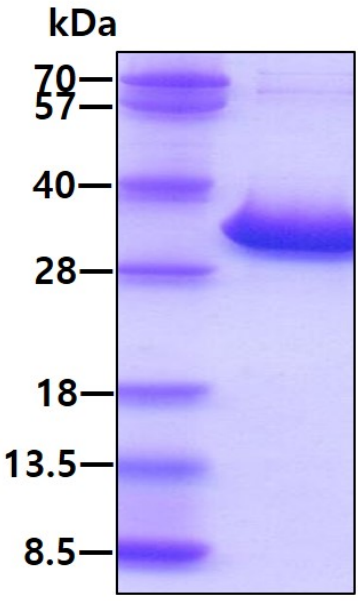
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MATG TRYAGKVVVV TGGGRGIGAG IVRAFVNSGA RVVICDKDES GGRALEQELP GAVFILCDVT QEDDVKTLVS ETIRRFGRLD CVVNNAGHHP PPQRPEETSA QGFRQLLELN LLGTYTLTKL ALPYLRKSQG NVINISSLVG AIGQAQAVPY VATKGAVTAM TKALALDESP YGVRVNCISP GNIWTPLWEE LAALMPDPRA TIREGMLAQP LGRMGQPAEV GAAAVFLASE ANFCTGIELL VTGGAELGYG CKASRSTPVD APDIPS

General References

Grimwood J., et al. (2004), Nature., 428: 529-535.
Lukacik P., et al. (2007). Biochem. J., 402: 419-427

DATA

SDS-PAGE



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