

Recombinant Full Length Human HSD17B4 Protein, C-Flag-tagged

Cat. No. HSD17B4-429HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HSD17B4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a bifunctional enzyme that is involved in the peroxisomal beta-oxidation pathway for fatty acids. It also acts as a catalyst for the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl-branched-chain fatty acids. Defects in this gene that affect the peroxisomal fatty acid beta-oxidation activity are a cause of D-bifunctional protein deficiency (DBPD). An apparent pseudogene of this gene is present on chromosome 8. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	79.5 kDa
AA Sequence	MGSPLRFDGRVVLVTGAGAGLGRAYALAF AERGALVVVNDLGGDFKGVGKGS LAA DKVVEEIRRRGGKAV ANYDSVEEGEKVVKTALDAFGRIDVVVNNAGILRDRSFARIS DEDWDIIHRVHLRGSFQVTRAAWEHMKK QKYGRIIMTSSASGIYGNFGQANY SAAK LGLLGLANSLAIEGRKSNIHCNTIAPNAGSRMTQTVMPEDLV EALKPEYVAPLV LWL CHESCEENGGLFEVGAGWIGKLRWERTLGAIVRQKNHPMTPEAVKANWKKICDFE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

NASKPQSIQESTGSIIEVLSKIDSEGGV SANHTSRATSTATSGFAGAIGQKLPPFSYA
 YTELEAIMYALG VGASIKDPKDLKFIYEGSSDFSCLP TFGVIIGQKSMMGGGLAEIPG
 LSINFAKVLHGEQYLELYKPLPRA GCLKCEAVVADVLDKSGSGVVIIMDVYSYSEKELI
 CHNQFSLFLVSGSGFGGKRTSDKVKVAVAIPNRPPD AVLTDTTSLNQAAALYRLSGD
 WNPLHIDPNFASLAGFDKPILHGLCTFGFSARRVLQQFADNDVSRFKAIAK ARFAKPV
 YPGQTLQTEMWKEGNRIHFQTKVQETGDIVISNAYVDLAPTS GTSAKTPSEGGKLQ
 STFVFEE IGRRLKDIGPEVVKKVNAVFEWHITKGGNIGAKWTIDLKSGSGKVYQGPA
 KGAADTTIILSDEDFMEVVLGKLDPQKAFFSGRLKARGNIMLSQKLQMILKDYAKL

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, Primary bile acid biosynthesis
Full Length	Full L.

GENE INFORMATION

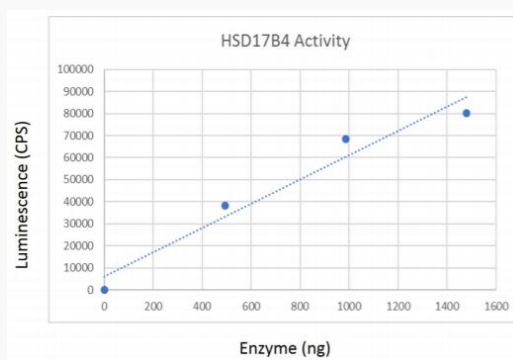
Gene Name HSD17B4 hydroxysteroid 17-beta dehydrogenase 4 [Homo sapiens (human)]

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Official Symbol	HSD17B4
Synonyms	DBP; MFE-2; MFP-2; MPF-2; PRLTS1; SDR8C1
Gene ID	3295
mRNA Refseq	NM_000414.4
Protein Refseq	NP_000405.1
MIM	601860
UniProt ID	P51659

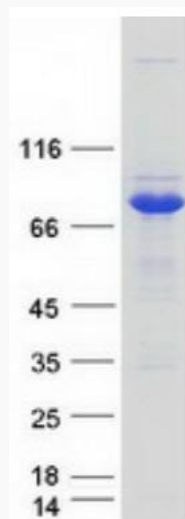


HSD17B4 enzymatic activity with 75μM βestradiol as a substrate, measured by NADH production (indicated by luminescence).

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Coomassie blue staining of purified HSD17B4 protein.

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