

Recombinant Mouse Hsd17b12 Protein, Myc/DDK-tagged

Cat. No. Hsd17b12-3441M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length hydroxysteroid (17-beta) dehydrogenase 12 (cDNA clone MGC:46848 IMAGE:5375831), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Catalyzes the second of the four reactions of the long-chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process, allows the addition of two carbons to the chain of long- and very long-chain fatty acids/VLCFAs per cycle. This enzyme has a 3-ketoacyl-CoA reductase activity, reducing 3-ketoacyl-CoA to 3-hydroxyacyl-CoA, within each cycle of fatty acid elongation. Thereby, it may participate in the production of VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. May also catalyze the transformation of estrone (E1) into estradiol (E2) and play a role in estrogen formation.
Molecular Mass	20.1 kDa
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.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Hsd17b12 hydroxysteroid (17-beta) dehydrogenase 12 [Mus musculus (house mouse)]
Official Symbol	Hsd17b12
Synonyms	Hsd17b12; hydroxysteroid (17-beta) dehydrogenase 12; KIK; Kik1; KIK-I; AI172963; 2610510O05Rik; very-long-chain 3-oxoacyl-CoA reductase; 17-beta-HSD 12; 17-beta-hydroxysteroid dehydrogenase 12; 3-ketoacyl-CoA reductase; KAR; estradiol 17-beta-dehydrogenase 12; keratoadhesin; keratonectin; steroid dehydrogenase; EC 1.1.1.330; EC 1.1.1.62
Gene ID	56348
mRNA Refseq	NM_019657
Protein Refseq	NP_062631
UniProt ID	O70503

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