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17-beta-HSD10 Recombinant Protein

Cat. No.: 92-368

17-beta-HSD10 Recombinant Protein

Specifications

SPECIES:	Human
SOURCE SPECIES:	Human Cells
SEQUENCE:	Met1-Pro261
FUSION TAG:	C-6 His tag
TESTED APPLICATIONS:	
APPLICATIONS:	This recombinant protein can be used for biological assays. For research use only.
PREDICTED MOLECULAR WEIGHT:	28 kD

Properties

PURITY:	Greater than 95% as determined by reducing SDS-PAGE. Endotoxin level less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
PHYSICAL STATE:	Liquid
BUFFER:	Supplied as a 0.2 um filtered solution of 20mM Trsi HCL pH-8,0.1M NaCl,1mM DTT & 10% glycerol. It is not recommended to reconstitute to a concentration less than 100 ug/ml.

STORAGE CONDITIONS:	Store at -20˚C, stable for 6 months after receipt. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Additional Info

OFFICIAL SYMBOL:	HSD17B10
ALTERNATE NAMES:	3-hydroxyacyl-CoA dehydrogenase type-2, 17-beta-hydroxysteroid dehydrogenase 10, 17-beta-HSD 10, 3-hydroxy-2-methylbutyryl-CoA dehydrogenase, 3-hydroxyacyl-CoA dehydrogenase type II, HSD17B10
ACCESSION NO.:	Q99714
GENE ID:	3028

Background and References

BACKGROUND:	3-hydroxyacyl-CoA dehydrogenase type-2(HSD17B10) belongs to the short-chain dehydrogenases/reductases (SDR) family. HSD17B10 is ubiquitously expressed in normal tissues but is overexpressed in neurons affected in AD. It functions in mitochondrial tRNA maturation. It catalyzes the beta-oxidation at position 17 of androgens and estrogens and has 3-alpha-hydroxysteroid dehydrogenase activity with androsterone. It also catalyzes the third step in the beta-oxidation of fatty acids and carries out oxidative conversions of 7-alpha-OH and 7-beta-OH bile acids. The protein exhibits 20-beta-OH and 21-OH dehydrogenase activities with C21 steroids. By interacting with intracellular amyloid-beta, HSD17B10 may contribute to the neuronal dysfunction associated with Alzheimer disease (AD).