

# Recombinant human 3-hydroxyacyl-CoA dehydrogenase type-2

Catalog No: #AP71508

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Package Size: #AP71508-1 20ug #AP71508-2 100ug #AP71508-3 1mg

## Description

Product Name	Recombinant human 3-hydroxyacyl-CoA dehydrogenase type-2
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-261aaSequence Info:Full Length
Other Names	17-beta-hydroxysteroid dehydrogenase 10 (EC:1.1.1.51) ;17-beta-HSD 103-hydroxy-2-methylbutyryl-CoA dehydrogenase (EC:1.1.1.178)3-hydroxyacyl-CoA dehydrogenase type IIEndoplasmic reticulum-associated amyloid beta-peptide-binding protein;Mitochondrial ribonuclease P protein 2 ;Mitochondrial RNase P protein 2Short chain dehydrogenase,reductase family 5C member 1Short-chain type dehydrogenase,reductase XH98G2Type II HADH
Accession No.	Q99714
Uniprot	Q99714
GenelD	3028;
Calculated MW	42.8 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	AAACRSVKGLVAVITGGASGLGLATAERLVGQGASAVLLDLPNSGGEAQAKKLGNNCVFAPADVTSEKDVQT ALALAKGKFGFRVDVAVNCAGIAVASKTYNLKKGQHTHTLEDFQRVLDVNLMTGFNVIRLVAGEMGQNEPDQGG QRGVIINTASVAAFEGQVGQAAYSASKGGIVGMTLPIARDLAPIGIRVMTIAPGLFGTPLLTSLPEKVCNFLASQ VPFPSRLGDPAEYAHLVQAIENPFLNGEVIRLDGAIRMQP
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Functions in mitochondrial tRNA maturation. Part of mitochondrial ribonuclease P, an enzyme composed of MRPP1,TRMT10C, MRPP2,HSD17B10 and MRPP3,KIAA0391, which cleaves tRNA molecules in their 5'-ends. Catalyzes the beta-oxidation at position 17 of androgens and estrogens and has 3-alpha-hydroxysteroid dehydrogenase activity with androsterone. Catalyzes the third step in the beta-oxidation of fatty acids. Carries out oxidative conversions of 7-alpha-OH and 7-beta-OH bile acids. Also exhibits 20-beta-OH and 21-OH dehydrogenase activities with C21 steroids. By interacting with intracellular amyloid-beta, it may contribute to the neuronal dysfunction associated with Alzheimer disease (AD).

## References

An intracellular protein that binds amyloid-beta peptide and mediates neurotoxicity in Alzheimer's disease.Yan S.D., Fu J., Soto C., Chen X., Zhu H.,

Note: This product is for in vitro research use only