

Datasheet for 009-001-S07S**HSD17B10 protein-GST fusion****Overview**

Description:	HSD17B10 recombinant protein-GST fusion protein - 009-001-S07S
Item No.:	009-001-S07S
Size:	20 µg
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	HSD17B10 gene encodes the protein 17-beta-hydroxysteroid dehydrogenase 10 that is a member of the short-chain dehydrogenase/reductase superfamily SCHAD (1). HSD17B10 gene product is a mitochondrial protein that is involved in lipid metabolism, fatty acid oxidation and steroid hormone metabolism. HSD17B10 protein has been implicated in the development of Alzheimer's disease and mutations in the gene are the cause of 2-methyl-3-hydroxybutyryl-CoA dehydrogenase deficiency (MHBD). Furthermore, HSD17B10 may act as a direct molecular link between beta-amyloid and mitochondrial toxicity (2). HSD17B10 Protein is ideal for investigators involved in Signaling Proteins, Cellular Proteins, Cellular Stress, and Neurobiology research.
Synonyms:	Hydroxysteroid (17-beta) Dehydrogenase 10, ABAD, ERAB, HCD2, MHBD, HADH2, SCHAD, 17b-HSD10, CAMR, MRPP2, MRX17, MRX31, MRXS10, SDR5C1, DUPXp11.22, 3-hydroxyacyl-CoA dehydrogenase type-2, 17-beta-hydroxysteroid dehydrogenase 10, 3-hydroxy-2-methylbutyryl-CoA dehydrogenase, 3-hydroxyacyl-CoA dehydrogenase type II, Endoplasmic reticulum-associated amyloid beta-peptide-binding protein, Mitochondrial ribonuclease P protein 2, Short-chain type dehydrogenase/reductase XH98G2, Type II HADH
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	HSD17B10
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Purity/Specificity:	Recombinant full-length human HSD17B10 was expressed using baculovirus in Sf9 cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry.
Relevant Links:	• NCBI - NM_004493

Application Details

Application Note:	HSD17B10 Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. HSD17B10 Protein is suitable for use in Western Blot. Expect a band approximately ~51kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.