

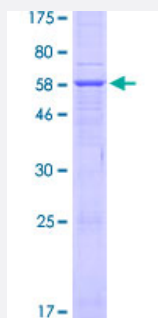
Full-Length

HSD3B7 (Human) Recombinant Protein (P01)

Catalog # H00080270-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HSD3B7 full-length ORF (NP_079469.2, 1 a.a. - 369 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MADSAQAQKLVLVTGGCGFLGEHVVRMLLQREPRLGELRVFDQHLGPWLEELKTGPVRVTAIQ
GDVTQAHEVAAAAGAHVVIHTAGLVDVFGGRASPKTIHEVNVQGTRNVIEACVQTGTRFLVYTSS
MEVVGPNTKGHPFYRGNEPTPYEAVHRHPYPCSKALAEWLVEANGRKVRGGLPLVTCALRPT
GIYGEHQMIRDFYRQGLRLGGWLFRAIPASVEHGRVYVGNVAWMHVLAAARELEQRATLMGGQV
YFCYDGSPYRSYEDFNMEFLGPCGLRLVGARLLPYWLLVFLAALNALLQWLLRPLVLYAPLLNP
YTLAVANTTFTVSTDKAQRHFGYEPLFSWEDSRTRTILWVQAATGSAQ

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

67.4

Interspecies Antigen Sequence

Mouse (86); Rat (79)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HSD3B7

Entrez GeneID[80270](#)**GeneBank Accession#**[NM_025193.2](#)**Protein Accession#**[NP_079469.2](#)**Gene Name**

HSD3B7

Gene Alias

PFIC4, SDR11E3

Gene Description

hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7

Omim ID[607764 607765](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes an enzyme which is involved in the initial stages of the synthesis of bile acids from cholesterol and a member of the short-chain dehydrogenase/reductase superfamily. The encoded protein is a membrane-associated endoplasmic reticulum protein which is active against 7-alpha hydroxylated sterol substrates. Mutations in this gene are associated with a congenital bile acid synthesis defect which leads to neonatal cholestasis, a form of progressive liver disease. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

3 beta-hydroxy-delta 5-C27-steroid oxidoreductase|3 beta-hydroxysteroid dehydrogenase type VII|3-beta-HSD VIII|C(27)-3BETA-HSD|short chain dehydrogenase/reductase family 11E, member 3

Pathway

- [Metabolic pathways](#)
- [Primary bile acid biosynthesis](#)