

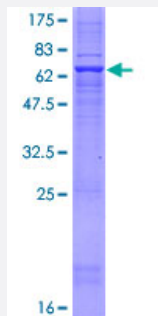
Full-Length

FA2H (Human) Recombinant Protein (P01)

Catalog # H00079152-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human FA2H full-length ORF (AAH17049.2, 1 a.a. - 372 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAPAPPPAASFSPSEVQRRRLAAGACWVRRGARLYDLSSFVRHHPGGEQLLRARAGQDISADLD
GPPHRHSANARRWLEQYYVGELRGEQQGSMENEPVALEETQKTDPAEMEPRFKVVDWDKDLVD
WRKPLLWQVGHLEGEYDEWVHQPVTPIRLFHSDLEGLSKTVWYSVPIMVPLVLYLSWSYYRTF
AQGNVRLFTSFTEYTVAVPKSMFPGLFMLGTFLWSLIEYLIHRFLFHMKPPSDSYLIMLHFVMHG
QHHKAPFDGSRLVFPPVPASLVIGVFYLCMQLLPEAVGGTVFAGGLLGYYLYDMTHYYLHFGSPH
KGSYLYSLKAHHVKHHFAHQKSGFGISTKLWDYCFHTLTPEKPHLKTQ

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

69.2

Interspecies Antigen Sequence

Mouse (82); Rat (81)

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 — FA2H

Entrez GeneID[79152](#)**GeneBank Accession#**[BC017049.1](#)**Protein Accession#**[AAH17049.2](#)**Gene Name**

FA2H

Gene Alias

FAAH, FAH1, FAXDC1, FLJ25287, SCS7

Gene Description

fatty acid 2-hydroxylase

Omim ID[611026](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Sphingolipids are a large class of lipids found in all eukaryotic cells and are involved in numerous cellular processes. The structural diversity of sphingolipids stems from more than 300 distinct head groups, as well as from modifications of the hydrophobic ceramide moiety. FA2H catalyzes a common modification of the ceramide moiety: hydroxylation at the 2 position of the N-acyl chain. Sphingolipids containing 2-hydroxy fatty acid are common in nervous and epidermal tissue. Glycosphingolipids containing a high proportion of 2-hydroxy fatty acid are critical components of myelin, and several very long chain ceramides with 2-hydroxy fatty acids are important for the permeability barrier function of epidermis (Alderson et al., 2004 [PubMed 15337768]).[supplied by OMIM]

Other Designations

fatty acid hydroxylase domain containing 1

Disease

- [Genetic Predisposition to Disease](#)
- [Tobacco Use Disorder](#)