

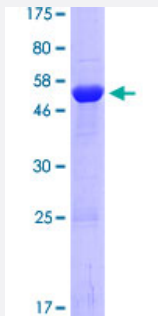
Full-Length

HAAO (Human) Recombinant Protein (P01)

Catalog # H00023498-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HAAO full-length ORF (AAH29510.1, 1 a.a. - 286 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MERRLGVRAWVKENRGSFQPPVCNKLHQEQLKVMFIGGPNTRKDYHIEEGEEVFYQLEGDMV
LRVLEQGKHRDVVIRQGEIFLLPARVPHSPQRFANTVGLVVERRRLETGLRYYVGDMDVLF
EKWFYCKDLGTQLAPIQEFFSSEQYRTGKPIPDQLLKEPPFPLSTRSIMEPMSLDAWLDSHHREL
QAGTPLSLFGDTYETQVIAYGQGSSEGLRQNVDVWLWQLEGSSVVTMGGRRLSLAPDDSLVLVA
GTSYAWERTQGSVALSVTQDPACKKPLG

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

59

Interspecies Antigen Sequence

Mouse (85); Rat (87)

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 — HAAO

Entrez GeneID[23498](#)**GeneBank Accession#**[BC029510.1](#)**Protein Accession#**[AAH29510.1](#)**Gene Name**

HAAO

Gene Alias

3-HAO, HAO

Gene Description

3-hydroxyanthranilate 3,4-dioxygenase

Omim ID[604521](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

3-Hydroxyanthranilate 3,4-dioxygenase is a monomeric cytosolic protein belonging to the family of intramolecular dioxygenases containing nonheme ferrous iron. It is widely distributed in peripheral organs, such as liver and kidney, and is also present in low amounts in the central nervous system. HAAO catalyzes the synthesis of quinolinic acid (QUIN) from 3-hydroxyanthranilic acid. QUIN is an excitotoxin whose toxicity is mediated by its ability to activate glutamate N-methyl-D-aspartate receptors. Increased cerebral levels of QUIN may participate in the pathogenesis of neurologic and inflammatory disorders. HAAO has been suggested to play a role in disorders associated with altered tissue levels of QUIN. [provided by RefSeq]

Other Designations

3-hydroxyanthranilate oxygenase|3-hydroxyanthranilic acid dioxygenase

Pathway

- [Metabolic pathways](#)
- [Tryptophan metabolism](#)

Disease

- [Alcoholism](#)
- [Celiac Disease](#)
- [Conduct Disorder](#)
- [Genetic Predisposition to Disease](#)