

Recombinant Full Length Human HAAO Protein, GST-tagged

Cat. No. HAAO-3415HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HAAO full-length ORF (AAH29510.1, 1 a.a. - 286 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	286 amino acids
Description	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]
Molecular Mass	59 kDa
AA Sequence	MERRLGVRAWVKENRGSFQPPVCNKLHMQEQLKVMFIGGPNTRKDYHIEEGEEVF YQLEGDMVLRVLEQGKHRDVIRQGEIFLLPARVPHSPQRFANTVGLVVERRRRLETE LDGLRYYVGD TMDVLF EKWFYCKDLGTQLAPIIQEFFSSEQYRTGKPIPDQLLKEPP FPLSTRSIMEPMSLDAWLDSHHRELQAGTPLSLFGDTYETQVIAYGQGSSEGLRQN

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	VDVWLWQLEGSSVVTMGGRRSLAPDDSLVLGTSYAWERTQGSVALSVTQDPA CKKPLG
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	HAAO 3-hydroxyanthranilate 3,4-dioxygenase [Homo sapiens]
Official Symbol	HAAO
Synonyms	HAAO; 3-hydroxyanthranilate 3,4-dioxygenase; HAD; 3-hydroxyanthranilate oxygenase; 3-hydroxyanthranilic acid dioxygenase; HAO; 3-HAO;
Gene ID	23498
mRNA Refseq	NM_012205
Protein Refseq	NP_036337
MIM	604521

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UniProt ID

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