

Recombinant Human HAAO Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HAAO-5306H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HAAO MS Standard C13 and N15-labeled recombinant protein (NP_036337) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	32.6 kDa
AA Sequence	MERRLGVRAWVKENRGSFQPPVCNKLHMQEQLKVMFIGGPNTRKDYHIEEGEEVF YQLEGDMVLRVLEQGKHRDVVIRQGEIFLLPARVPHSPQRFANTVGLVVERRRLETE LDGLRYYYVGDTMDVLFKWFYCKDLGTQLAPIIQEFFSSEQYRTGKPIPDQLLKEPP FPLSTRSIMEPMSLDAWLDSHHRELQAGTPLSLFGDTYETQVIAYGQGSSEGLRQN

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	VDVWLWQLEGSSVVTMGGRRSLAPDDSLVLVAGTSYAWERTQGSVALSVTQDPA CKKPLGTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	HAAO 3-hydroxyanthranilate 3,4-dioxygenase [Homo sapiens (human)]
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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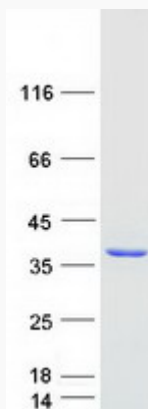
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UniProt ID

P46952

SDS-PAGE

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