Recombinant Full Length Human HAAO Protein, C-Flag-tagged

Cat. No. HAAO-643HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HAAO Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	32.4 kDa
AA Sequence	MERRLGVRAWVKENRGSFQPPVCNKLMHQEQLKVMFIGGPNTRKDYHIEEGEEVF YQLEGDMVLRVLEQG KHRDVVIRQGEIFLLPARVPHSPQRFANTVGLVVERRRLET ELDGLRYYVGDTMDVLFEKWFYCKDLGTQ LAPIIQEFFSSEQYRTGKPIPDQLLKEP PFPLSTRSIMEPMSLDAWLDSHHRELQAGTPLSLFGDTYETQ VIAYGQGSSEGLRQ

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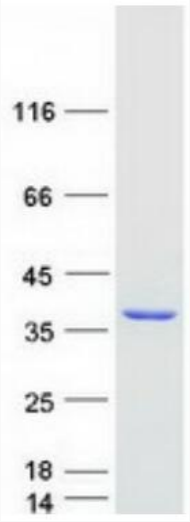
	NVDVWLWQLEGSSVVTMGGRRLSLAPDDSLLVLAGTSYAWERTQGSVALSVTQDP A CKKPLGTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Metabolic pathways, Tryptophan metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	HAAO 3-hydroxyanthranilate 3,4-dioxygenase [Homo sapiens (human)]
Official Symbol	HAAO
Synonyms	HAO; 3-HAO; VCRL1; h3HAO
Gene ID	23498
mRNA Refseq	NM_012205.3

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Protein Refseq	NP_036337.2
MIM	604521
UniProt ID	P46952



Coomassie blue staining of purified HAAO protein.

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