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Product datasheet for PH306273

HAAO (NM_012205) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HAAO MS Standard C13 and N15-labeled recombinant protein (NP_036337)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206273
Predicted MW:	32.6 kDa
Protein Sequence:	>RC206273 protein sequence Red=Cloning site Green=Tags(s) MERRLGVRAWVKENRGSFQPPVCNKLMHQEQLKVMFIGGPNTRKDYHIEEGEEVFYQLEGDMVLRVLEQG KHRDVVIRQGEIFLLPARVPHSPQRFANTVGLVVERRRLETELDGLRYYVGDTMDVLFEKWFYCKDLGTQ LAPIIQEFFSSEQYRTGKPIPDQLLKEPPFPLSTRSIMEPMSLDAWLDSHHRELQAGTPLSLFGDTYETQ VIAYGQGSSEGLRQNVDVWLWQLEGSSVVTMGGRRLSLAPDDSLLVLAGTSYAWERTQGSVALSVTQDPA CKKPLG TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_036337
RefSeq Size:	1301
RefSeq ORF:	858
Synonyms:	3-HAO; h3HAO; HAO; VCRL1
Locus ID:	23498

View online »

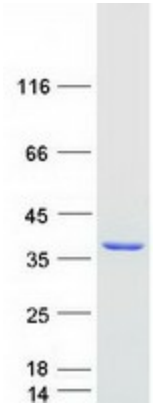
UniProt ID: P46952

Cytogenetics: 2p21

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, Jul 2008]

Protein Pathways: Metabolic pathways, Tryptophan metabolism

Product images:



Coomassie blue staining of purified HAAO protein (Cat# [TP306273]). The protein was produced from HEK293T cells transfected with HAAO cDNA clone (Cat# [RC206273]) using MegaTran 2.0 (Cat# [TT210002]).