HAAO Blocking Peptide

PRODUCT OVERVIEW

Product Name	HAAO, Blocking Peptide
Full Product Name	HAAO Peptide
Product Gene Name	HAAO blocking peptide
Product Synonym Names	HAO; 3-HAO; 3-hydroxyanthranilate 3; 4-dioxygenase; 3-hydroxyanthranilate oxygenase; 3-hydroxyanthranilate 3,4-dioxygenase
Form/Format	Liquid
Concentration	200 ug/mL (lot specific)
Preparation and Storage	Store HAAO peptide at -20 degree C, stable for one year.
Antibody/Peptide Pairs	HAAO peptide (MBS152992) is used for blocking the activity of HAAO antibody (MBS150662)
Molecular Weight	17,275 Da
OMIM	604521
Species	Human
Buffer	PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide
Location	17 amino acids near the amino terminus of human HAAO.
Applications Tested/Suitable for HAAO blocking peptide	Blocking (BL)
Application Notes for HAAO blocking peptide	HAAO peptide is used for blocking the activity of HAAO antibody.
Related Product Information for HAAO blocking peptide	MBS152992 is a blocking peptide targeting HAAO. Also known as HAAO Peptide.
Other Notes	Small volumes of HAAO blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HAAO. It may not necessarily be applicable to this product.

NCBI GI #	188497625
NCBI GeneID	23498
NCBI Accession #	NP_036337
UniProt Primary Accession #	P46952
UniProt Secondary Accession #	Q53QZ7; Q8N6N9; A6NE56; B4DIN2
UniProt Related Accession #	P46952
GenBank Nucleotide #	NM_012205.2
NCBI Official Full Name	3-hydroxyanthranilate 3,4-dioxygenase

NCBI Official Synonym Full Names	3-hydroxyanthranilate 3,4-dioxygenase
NCBI Official Symbol	HAAO
NCBI Official Synonym Symbols	HAO; 3-HAO
UniProt Protein Name	3-hydroxyanthranilate 3,4-dioxygenase
UniProt Synonym Protein Names	3-hydroxyanthranilate oxygenase; 3-hydroxyanthranilic acid dioxygenase
UniProt Gene Name	HAAO
UniProt Entry Name	3HAO_HUMAN
NCBI Protein Information	3-hydroxyanthranilate 3,4-dioxygenase; HAD; HAAO; 3-HAO; 3-hydroxyanthranilate oxygenase; 3-hydroxyanthranilic acid dioxygenase
NCBI Summary for HAAO	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]
UniProt Comments for HAAO	HAAO: Catalyzes the oxidative ring opening of 3- hydroxyanthranilate to 2-amino-3-carboxymuconate semialdehyde, which spontaneously cyclizes to quinolinate. Belongs to the 3-HAO family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 1.13.11.6; Amino Acid Metabolism - tryptophan; Oxidoreductase Chromosomal Location of Human Ortholog: 2p21 Cellular Component: mitochondrial membrane; cytosol Molecular Function: electron carrier activity; ferrous iron binding; oxygen binding; 3-hydroxyanthranilate 3,4-dioxygenase activity Biological Process: anthranilate metabolic process; response to cadmium ion; response to zinc ion; quinolinate biosynthetic process; tryptophan catabolic process
Research Articles on HAAO	**1.** Methylation status of CIDEA, HAAO and RXFP3 had significant association with microsatellite instability in endometrial tumors.
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