

AR50383PU-S

Human HAAO (1-286, His-tag) - Purified

Alternate names:

3-HAO, 3-hydroxyanthranilate 3, 3-hydroxyanthranilate oxygenase, 3-hydroxyanthranilic acid dioxygenase, 4-dioxygenase, HAD

Quantity:

50 µg

Concentration:

0.5mg/ml (determined by BCA assay)

Background:

HAAO is a monomeric cytosolic protein belonging to the family of intramolecular dioxygenases containing nonheme ferrous iron. This protein 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.

Uniprot ID:

[P46952](#)

NCBI:

[NP_036337.2](#)

GeneID:

[23498](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Description:

Recombinant human HAAO protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSHMERRLG VRAWVKENRG SFQPPVCNKL MHQEQLKVMF
IGGPNTRKDY HIEEGEEVFY QLEGDMVLRV LEQGKHRDVV IRQGEIFLLP ARVPHSPQRF
ANTVGLVVER RRLETLDGL RYYVGDMDV LFEKWFYCKD LGTQLAPIIQ EFFSSEQYRT
GKPIPDQLLK EPPFPLSTRS IMEPMSLDW LDSSHRELQA GTPLSLFGDT YETQVIAYGQ
GSSEGLRQNV DVWLWQLEGS SVVTMGRRRL SLAPDDSLV LAGTSYAWER TQGSVALSVT
QDPACKKPLG

Molecular weight: 35 kDa (310aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Malherbe P., et al. (1994) J Biol Chem. 13;269(19):13792-7.

Pictures:

