

HAAO, 1-286aa, Human, His tag, E.coli

Cat.NO.: TP02393

3th Edition

Synonyms:3-hydroxyanthranilate 3,4-dioxygenase, 3-HAO, HAO.

Description: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 Nmethyl- D-aspartate receptors.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

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

Sequences:

MGSSHHHHHSSGLVPRGSHMGSHMERRLGVRWVVKENRGSFQPPVCNKLHQEQLKVMFIGGPNTRKDYHIE
EGEEVFYQLEGDMVLRVLEQGKHRDVVIRQGEIFLLPARVPHSPQRFANTVGLVVERRRLETELDGLRYYVGDTM
DVLFEKWFYCKDLGTQLAPIIQEFFSSEQYRTGKPIPDQLLKEPPFPLSTRSIMEPMSLDAWLDSHHRELQAGTPLS
LFGDTYETQVIAYGQGSSEGLRQNVDVWLWQLEGSSVVTMGGRRSLAPDDSLVLAGTSYAWERTQGSVALSV
TQDPACKKPLG

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by BCA assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.