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## Product Data Sheet

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Product Name: HAAO Human  
 Cat. No.: GP21769  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	3-hydroxyanthranilate 3;4-dioxygenase; 3-hydroxyanthranilate oxygenase; 3-HAO; 3-hydroxyanthranilic acid dioxygenase; HAD; HAAO; HAO.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMERRLG VRAWVKENRG SFQPPVCNKL MHQEQLKVMF IGGPNTRKDY HIEEGEEVFY QLEGDMVLRV LEQGKHRDVV IRQGEIFLLP ARVPHSPQRF ANTVGLVVER RRLETELDGL RYYVGD TMDV LFEKWFYCKD LGTQLAPIIQ EFFSSEQYRT GKPIPDQLLK EPPFPLSTRS IMEPM SLDAW LDSHHRELQA GTPLSLFGDT YETQVIAYGQ GSSEGLRQNV DVWLWQLEGS SVVTMGGRRL SLAPDD SLLV LAGTSYAWER TQGSVALSVT QDPACKKPLG.		
Formulation	HAAO protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

### Introduction

HAAO is a monomeric cytosolic protein which is a member of intramolecular dioxygenases family containing nonheme ferrous iron. The HAAO protein catalyzes the synthesis of quinolinic acid (QUIN) from 3-hydroxyanthranilic acid. QUIN is an excitotoxin whose toxicity is facilitated by its ability to activate glutamate N-methyl-D-aspartate receptors. Amplified cerebral levels of QUIN may contribute to the pathogenesis of neurologic and inflammatory disorders. HAAO is widely distributed in peripheral organs, such as liver and kidney, and is also present in low amounts in the central nervous system.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

HAAO Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 310 amino acids (1-286 a.a.) and having a molecular mass of 35kDa. HAAO is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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