

## HAAO Protein, Rat (His)

<b>Cat. No.:</b>	HY-P76963
<b>Synonyms:</b>	3-hydroxyanthranilate 3,4-dioxygenase; 3-HAO; HAD
<b>Species:</b>	Rat
<b>Source:</b>	E. coli
<b>Accession:</b>	P46953 (M1-G286)
<b>Gene ID:</b>	56823
<b>Molecular Weight:</b>	Approximately 34.8 kDa.

### PROPERTIES

<b>AA Sequence</b>	<pre> M E R C V R V K S W   V E E N R A S F Q P   P V C N K L M H R E   Q L K I M F V G G P N T R K D Y H I E E   G E E V F Y Q L E G   D M V L R V L E Q G   E H R D V V I R Q G E I F L L P A R V P   H S P Q R F A N T M   G L V I E R R R M E   T E L D G L R Y Y V G D T E D V L F E K   W F H C K D L G T Q   L A P I I Q E F F H   S E Q Y R T G K P N P D Q L L K E P P F   P L S T R S V M E P   M S L K A W L E S H   S R E L Q A G T S L S L F G D S Y E T Q   V I A H G Q G S S K   G P R Q D V D V W L   W Q L E G S S K V T M G G Q C V A L A P   D D S L L V P A G F   S Y M W E R A Q G S   V A L S V T Q D P A C K K P L G           </pre>
<b>Biological Activity</b>	Measured by its ability to inhibit the proliferation of PANC-1 Cells. The ED <sub>50</sub> for this effect is 0.106 µg/mL. Corresponding to a specific activity is 9.434×10 <sup>3</sup> Unit/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The HAAO protein plays a crucial role in the biochemical pathway by catalyzing the oxidative ring opening of 3-
-------------------	---

---

hydroxyanthranilate, resulting in the formation of 2-amino-3-carboxymuconate semialdehyde. This semialdehyde compound then undergoes a spontaneous cyclization process, ultimately leading to the production of quinolinate.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA