

HAAO Protein, Rat (His)

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

PROPERTIES

AA Sequence	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
Biological Activity	Measured by its ability to inhibit the proliferation of PANC-1 Cells. The ED ₅₀ for this effect is 0.106 µg/mL. Corresponding to a specific activity is 9.434×10 ³ Unit/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	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

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