

HAAO Protein, Human (sf9, His-GST)

Cat. No.:	HY-P76962
Synonyms:	3-hydroxyanthranilate 3,4-dioxygenase; 3-HAO; HAD
Species:	Human
Source:	Sf9 insect cells
Accession:	P46952 (M1-G286)
Gene ID:	23498
Molecular Weight:	Approximately 60.4 kDa.

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 150 mM NaCl, 25% glycerol, 1 mM TCEP, 0.5 mM GSH. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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 assumes a critical role in cellular metabolism by catalyzing the oxidative ring opening of 3-hydroxyanthranilate, leading to the formation of 2-amino-3-carboxymuconate semialdehyde, which subsequently undergoes spontaneous cyclization to generate quinolinate. This enzymatic process is integral to the catabolism of tryptophan and contributes to the production of quinolinate, a compound involved in various biological pathways. The functionality of the HAAO protein in mediating these biochemical reactions highlights its importance in regulating the metabolic fate of 3-hydroxyanthranilate and underscores its broader significance in cellular homeostasis.
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Caution: Product has not been fully validated for medical applications. For research use only.

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