

## Fumarylacetoacetase/FAH Protein, Human (HEK293, His)

Cat. No.:	HY-P70307
Synonyms:	rHuFumarylacetoacetase/FAH, His; Fumarylacetoacetase; FAA; Beta-Diketonase; Fumarylacetoacetate Hydrolase; FAH
Species:	Human
Source:	HEK293
Accession:	P16930 (S2-S419)
Gene ID:	2184
Molecular Weight:	Approximately 43.0 kDa

### PROPERTIES

AA Sequence	<p>S F I P V A E D S D F P I H N L P Y G V F S T R G D P R P R I G V A I G D Q I L</p> <p>D L S I I K H L F T G P V L S K H Q D V F N Q P T L N S F M G L G Q A A W K E A</p> <p>R V F L Q N L L S V S Q A R L R D D T E L R K C A F I S Q A S A T M H L P A T I</p> <p>G D Y T D F Y S S R Q H A T N V G I M F R D K E N A L M P N W L H L P V G Y H G</p> <p>R A S S V V V S G T P I R R P M G Q M K P D D S K P P V Y G A C K L L D M E L E</p> <p>M A F F V G P G N R L G E P I P I S K A H E H I F G M V L M N D W S A R D I Q K</p> <p>W E Y V P L G P F L G K S F G T T V S P W V V P M D A L M P F A V P N P K Q D P</p> <p>R P L P Y L C H D E P Y T F D I N L S V N L K G E G M S Q A A T I C K S N F K Y</p> <p>M Y W T M L Q Q L T H H S V N G C N L R P G D L L A S G T I S G P E P E N F G S</p> <p>M L E L S W K G T K P I D L G N G Q T R K F L L D G D E V I I T G Y C Q G D G Y</p> <p>R I G F G Q C A G K V L P A L L P S</p>
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 20 mM Tris-HCl, 150 mM NaCl, pH 8.5.
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 <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).
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

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## Background

Fumarylacetoacetase is an enzyme encoded by the FAH gene on human chromosome 15. The FAH gene is believed to be involved in the catabolism of phenylalanine in humans and is a key enzyme in the metabolism of phenylalanine and tyrosine, which is mainly expressed in the liver. FAH is a protein homodimer that splits the carbon-carbon bond of fumarylacetic acid in a hydrolysis reaction. The active site of FAH contained  $\text{Ca}^{2+}$ . Deficiency of FAH causes hereditary tyrosinemia type 1<sup>[1][2][3]</sup>.

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

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