

FAAH2 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702276
Synonyms:	Fatty-acid amide hydrolase 2; Amidase domain-containing protein; Anandamide amidohydrolase 2; Oleamide hydrolase 2
Species:	Human
Source:	E. coli Cell-free
Accession:	Q6GMR7 (M1-F532)
Gene ID:	158584
Molecular Weight:	59.8 kDa

PROPERTIES

AA Sequence	<pre> M A P S F T A R I Q L F L L R A L G F L I G L V G R A A L V L G G P K F A S K T P R P V T E P L L L L S G M Q L A K L I R Q R K V K C I D V V Q A Y I N R I K D V N P M I N G I V K Y R F E E A M K E A H A V D Q K L A E K Q E D E A T L E N K W P F L G V P L T V K E A F Q L Q G M P N S S G L M N R R D A I A K T D A T V V A L L K G A G A I P L G I T N C S E L C M W Y E S S N K I Y G R S N N P Y D L Q H I V G G S S G G E G C T L A A A C S V I G V G S D I G G S I R M P A F F N G I F G H K P S P G V V P N K G Q F P L A V G A Q E L F L C T G P M C R Y A E D L A P M L K V M A G P G I K R L K L D T K V H L K D L K F Y W M E H D G G S F L M S K V D Q D L I M T Q K K V V V H L E T I L G A S V Q H V K L K K M K Y S F Q L W I A M M S A K G H D G K E P V K F V D L L G D H G K H V S P L W E L I K W C L G L S V Y T I P S I G L A L L E E K L R Y S N E K Y Q K F K A V E E S L R K E L V D M L G D D G V F L Y P S H P T V A P K H H V P L T R P F N F A Y T G V F S A L G L P V T Q C P L G L N A K G L P L G I Q V V A G P F N D H L T L A V A Q Y L E K T F G G W V C P G K F </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
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 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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

Fatty Acid Amide Hydrolase 2 (FAAH2) is an enzyme that catalyzes the hydrolysis of endogenous amidated lipids, including the sleep-inducing lipid oleamide ((9Z)-octadecenamide) and the endocannabinoid anandamide (N-(5Z,8Z,11Z,14Z-eicosatetraenoyl)-ethanolamine). FAAH2 plays a crucial role in regulating the signaling functions of these bioactive molecules by converting them into their corresponding fatty acids. The enzyme exhibits a preference for monounsaturated substrates like anandamide over polyunsaturated ones. This hydrolytic activity on amidated lipids suggests FAAH2's involvement in the control and modulation of various physiological processes, including those related to sleep regulation and endocannabinoid signaling. It has to succinctly describe FAAH2's substrate specificity and its role in regulating the signaling functions of endogenous amidated lipids.

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

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