

CES2/carboxylesterase 2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76193
Synonyms:	Cocaine esterase; Carboxylesterase 2; CE-2; CES2; ICE
Species:	Mouse
Source:	HEK293
Accession:	Q91WG0 (Q27-K557)
Gene ID:	234671
Molecular Weight:	Approximately 52-60 kDa.

PROPERTIES

AA Sequence

Q D S P E A N P I R	N T H T G Q I Q G S	L I H V K D T K A G	V H T F L G I P F A
K P P V G P L R F A	P P E A P E P W S G	V R D G T A H P A M	C L Q N L D M L N E
A G L P D M K M M L	S S F P M S E D C L	Y L N I Y T P A H A	H E G S N L P V M V
W I H G G A L V I G	M A S M F D G S L L	T V N E D L V V V T	I Q Y R L G V L G F
F S T G D Q H A R G	N W G Y L D Q A A A	L R W V Q Q N I A H	F G G N P D R V T I
F G E S A G G T S V	S S H V V S P M S Q	G L F H G A I M E S	G V A L L P D L I S
E T S E M V S T T V	A K L S G C E A M D	S Q A L V R C L R G	K S E A E I L A I N
K V F K M I P A V V	D G E F F P R H P K	E L L A S E D F H P	V P S I I G V N N D
E F G W S I P V V M	G S A Q M I K G I T	R E N L Q A V L K D	T A V Q M M L P P E
C S D L L M E E Y M	G D T E D A Q T L Q	I Q F T E M M G D F	M F V I P A L Q V A
H F Q R S H A P V Y	F Y E F Q H P P S Y	F K D V R P P H V K	A D H A D E I P F V
F A S F F W G M K L	D F T E E E E L L S	R R M M K Y W A N F	A R H G N P N S E G
L P Y W P V M D H D	E Q Y L Q L D I Q P	A V G R A L K A G R	L Q F W T K T L P Q
K I Q E L K A S Q D	K		

Biological Activity Measured by its ability to hydrolyze pnitrophenylacetate. The specific activity is $\geq 75,589.342$ pmol/min/ μ g.

Appearance Lyophilized powder

Formulation Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4.

Endotoxin Level <1 EU/ μ g, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH₂O. 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

CES2, a hydrolase, exhibits significant activity towards palmitoylcarnitine and displays additional enzymatic efficacy with substrates such as p-nitrophenylacetate and alpha-naphthylacetate. Furthermore, CES2 may participate in the hydrolysis of retinyl esters, showcasing its versatile enzymatic capabilities.

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

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