Carboxylesterase 5 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7731
Synonyms:	rMuCarboxylesterase 5, His; Pyrethroid hydrolase Ces2e; carboxylesterase 2E; CES5
Species:	Mouse
Source:	HEK293
Accession:	Q8BK48 (Q27-R555)
Gene ID:	234673
Molecular Weight:	58-65 kDa

PROPERTIES

AA Sequence	Q D S A S P I R N T H T G Q V R G S L V H V K D T D I A 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 S H P N M C L Q N D N L M G S E D L K M M N L I L P P I S M S E D C L Y L N I Y V P A H A H E G S N L P V M V W I H G G A L T V G M A S M Y D G S M L A A T E D V V V V A I Q Y R L G V L G F F S T G D Q H A K G N W G Y L D Q V A A L R W V Q Q N I V 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 V L P D L I S S S S E M V H R I V A N L S G C A A V N S E T L M C C L R G K N E A E M L A I N K V F K I I P G V V D G E F L P K H P Q E L M A S K D F H P V P S I I G I N N D E Y G W I L P T I M D P A Q K I E E I T R K T L P A V L K S T A L K M M L P P E C G D L L M E E Y M G D T E D P E T L Q A Q F R E M K 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 R P S F F K D F R P P Y V K A D H G D E I F L V F G Y Q F G N I K L P Y T E E E E Q L S R R I 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 S V G R A L K A R R L Q F W T K T L P Q K I Q E L K G S Q E R H H H H H H
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM Tris-HCl, 150 mM NaCl, pH8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	Carbonic Anhydrase 11 belongs to the carbonic anhydrase (CA) family and may be involved in cell proliferation and cellular transformation. CAs are zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide and thus participate in a variety of biological and physical processes[1]. Carboxylesterase 5 (CES5) is one of at least five mammalian CES gene families encoding enzymes of broad substrate specificity and catalysing hydrolytic and transesterification reactions[2].

REFERENCES

[1]. Roger S Holmes, et al. Mammalian carboxylesterase 5: comparative biochemistry and genomics. 2008 Sep;3(3):195-204.

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

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