CES3/CES1D Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70088
Synonyms:	rMuCarboxylesterase 1D/CES3, His; CES3; carboxylesterase 3; carboxylesterase 3 (brain); EC 3.1.1; EC 3.1.1.1; ES31FLJ21736; Esterase 31; Liver carboxylesterase 31 homolog
Species:	Mouse
Source:	HEK293
Accession:	Q8VCT4 (Y19-E561)
Gene ID:	104158
Molecular Weight:	58-70 kDa

PROPERTIES

AA Sequence	Y P S S P P V V N T V K G K V L G K Y V N L E G F T Q P V A V F L G V P F A K P P L G S L R F A P P Q P A E P W S F V K N T T S Y P P M C S Q D A V G G Q V L S E L F T N R K E N I P L Q F S E D C L Y L N I Y T P A D L T K N S R L P V M V W I H G G G L V V G G A S T Y D G L A L S A H E N V V V V T I Q Y R L G I W G F F S T G D E H S R G N W G H L D Q V A A L R W V Q D N I A N F G G N P G S V T I F G E S A G G F S V S V L V L S P L A K N L F H R A I S E S G V S L T A A L I T T D V K P I A G L V A T L S G C K T T T S A V M V H C L R Q K T E D E L L E T S L K L N L F K L D L L G N P K E S Y P F L P T V I D G V V L P K A P E E I L A E K S F S T V P Y I V G I N K Q E F G W I I P T L M G Y P L A E G K L D Q K T A N S L L W K S Y P T L K I S E N M I P V V A E K Y L G G T D D L T K K K D L F Q D L M A D V V F G V P S V I V S R S H R D A G A S T Y M Y E F E Y R P S F V S A M R P K A V I G D H G D E I F S V F G S P F L K D G A S E E E T N L S K M V M K F W A N F A R N G N P N G G G L P H W P E Y D Q K E G Y L K I G A S T Q A A Q R L K D K E V S F W A E L R A K E S A Q R P S H R E
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 8.0.
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	CES3/CES1D Protein, a major lipase predominantly found in white adipose tissue, plays a crucial role in xenobiotic and natural substrate metabolism. This enzyme is involved in the hydrolysis of triacylglycerols and monoacylglycerols, exhibiting a preference for the latter. Its substrate susceptibility increases with decreasing acyl chain length of the fatty acid moiety. CES3/CES1D also catalyzes the synthesis of fatty acid ethyl esters and participates in the hydrolysis of retinyl esters.

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