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Datasheet for ABIN7318241 **CES1 Protein (His tag)**



Overview	
Quantity:	50 µg
Target:	CES1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CES1 protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human Carboxylesterase 1/CES1 Protein (His Tag)
Sequence:	His19-Glu562
Characteristics:	Recombinant Human Carboxylesterase 1 is produced by our Mammalian expression system and the target gene encoding His19-Glu562 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.
Target Details	
Target:	CES1

Target.	CEST
Alternative Name:	Carboxylesterase 1/CES1 (CES1 Products)
Background:	Background: Carboxylesterase 1 (CES1) is a member of a large family of carboxylesterases that are responsible for the hydrolysis of ester and amide bonds. These enzymes have broad
	substrate specificity ranging from small molecule esters such as phenylester to long chain fatty

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	acid esters and thioesters. They are major determinants of the pharmacokinetic behavior of
	most therapeutic agents containing an ester or amide bond. CES1 shares the serine hydrolase
	fold observed in other esterases. CES1 hydrolyzes aromatic and aliphatic esters, but has no
	catalytic activity toward amides or a fatty acyl-CoA ester. CES1 participates in detoxification of
	drugs such as cocaine and heroin in serum and liver. It may also play a role in detoxification in
	the lung and/or protection of the central nervous system from ester or amide compounds.
	Synonym: Liver Carboxylesterase 1, Acyl-Coenzyme A:Cholesterol Acyltransferase, ACAT, Brain
	Carboxylesterase hBr1, Carboxylesterase 1, CE-1, hCE-1, Cocaine Carboxylesterase, Egasyn,
	HMSE, Methylumbelliferyl-Acetate Deacetylase 1, Monocyte/Macrophage Serine Esterase,
	Retinyl Ester Hydrolase, REH, Serine Esterase 1, Triacylglycerol Hydrolase, TGH, CES1, CES2,
	SES1
Molecular Weight:	61.1 kDa
Pathways:	Monocarboxylic Acid Catabolic Process
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 μm filtered solution of 20 mM HAc-NaAc, 150 mM NaCl, pH 4.0.
Storage:	-20 °C
Charles and Conservation	