

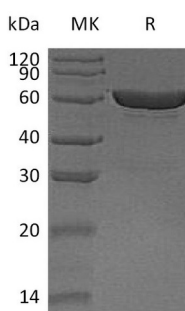
Product Name: Recombinant Human CES1 (C-6His)
Catalog #: PHH0224



Summary

Name	Carboxylesterase 1/CES1
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	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.
Accession #	P23141-3
Host	Human Cells
Species	Human
Predicted Molecular Mass	61.05 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM HAc-NaAc, 150mM NaCl, pH 4.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image



Background

Alternative Names	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
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Background

Esterase 1; Triacylglycerol Hydrolase; TGH; CES1; CES2; SES1

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 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.

Note

For Research Use Only , Not for Diagnostic Use.