

Carboxylesterase 2 from Human, Recombinant

Cat. No. NATE-0812 Lot. No. (See product label)

Introduction

Description	Member of a serine esterase family that hydrolyze ester and amide bonds. Carboxylesterase 2 is an
	endoplasmic reticulum-bound hydrolase that plays a critical role in xenobiotic detoxification and
	activation for ester-containing therapeutics. Carboxylesterase 2 is also involved in the detoxification of
	drugs such as heroin and cocaine. This enzyme is thought to play a role in lipid metabolism. Human
	carboxylesterase 2 (hCE-2) recognizes a substrate with a large alcohol group and small acyl group. Its
	substrate specificity may be restricted by a capability of acyl-hCE-2 conjugate formation due to the
	presence of conformational interference in the active site pocket. Carboxylesterases catalyze the
	biotransformation of several ester-containing drugs and prodrugs such as angiotensin-converting
	enzyme inhibitor (temocarpil, cilazapril), anti-tumor drugs (capecitabin) and narcotics.

Synonyms EC 3.1.1.1; Carboxylesterase 2; CES2; CES2A1; CE-2; PCE-2; iCE

Product Information

Species	Human
Source	Mouse NSO cells
Form	Supplied as a solution containing sodium chloride, sodium acetate, and 20% glycerol.
EC Number	EC 3.1.1.1
CAS No.	9016-18-6
Molecular Weight	~60 kDa
Purity	>95% (SDS-PAGE)
Activity	>30,000 (pmol/min/µg)
Concentration	0.4 - 0.6 mg/ml

Storage and Shipping Information

Storage Store

Store at -70°C