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Datasheet for ABIN1096215 CES1 Protein (AA 19-562) (His tag)

Overview

Quantity:	50 µg
Target:	CES1
Protein Characteristics:	AA 19-562
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 (C-6His)
Sequence:	HPSSPPVVDV VHGVVLGKFV SLEGFAQPVA IFLGIPFAKP PLGPLRFTTP QPAEPWSFVK NATSYPPMCT QDPKAGQLLS ELFTNRKENI PLKLSIEDCLY LNIYTPADLT KKNRLPVMVW IHGGGLMVGA ASTYDGLALA AHENVVVVTI QYRLGIWGFF STGDEHSRGN WGHLDQVAAL RWVQDNIA SF GGNPGSVTIF GESAGGESVS VLVLSPLAKN LFHRAISESG VALTSVLVKK GDVKPLAEQI AITAGCKTTT SAVMVHCLRQ KTEEELETT LKMKFLSLDL QGDPRESQPL LGTVIDGMLL LKTPEELQAE RNFHTVPYMV GINKQEFMWL IPMLMSYPLS EGQLDQKTAM SLLWKSYP LV CIAKELIPEA TEKYLGGTDD TVKKKDLFLD LIADVMFGVP SVIVARNHRD AGAPTYMYEF QYRPSFSSDM KP KTVIGDHG DELFSVFGAP FLKEGASEEE IRLSKMVMKF WANFARNGNP NGEGLPHWPE YNQKEGYLQI GANTQAAQKL KDKEVAFWTN LFAKKAVEKP PQTEVDHHHH HH
Characteristics:	Recombinant Human Carboxylesterase 1/CES1 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (His19-Glu562) of

Product Details

	Human CES1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CES1
Alternative Name:	ces1 (CES1 Products)
Sub Type:	Fusionprotein
Background:	<p>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.</p> <p>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 Esteras</p>
Molecular Weight:	61.05 kDa
Pathways:	Monocarboxylic Acid Catabolic Process

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL.

Handling

Dissolve the lyophilized protein in ddH₂O.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM HAc-NaAc, 150 mM NaCl, pH 4.0.
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Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
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Storage:	-80 °C
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Storage Comment:	Store at < -20°C, stable for 6 months after receipt.
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Please minimize freeze-thaw cycles.

Expiry Date:	6 months
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