

Carboxylesterase 1 (CES1) Active Protein | CES1 active protein

Active Carboxylesterase 1 (CES1)

CATALOG # AAA153113	HOST E coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Carboxylesterase 1 (CES1); Active Carboxylesterase 1 (CES1); Carboxylesterase 1; CES1 active protein (prokaryotic); Mouse; ACAT; CEH; CES2; HMSE1; PCE1; SES1; TGH; Retinyl ester hydrolase; Serine esterase 1; Triacylglycerol hydrolase; Egasyn; Cocaine carboxylesterase; Liver Carboxylesterase 1; CES1 active protein

PRODUCT SPECIFICATIONS

Host	E coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose. Freeze-dried powder
Sequence Positions	His19~Leu565
Applicable Applications for CES1 active protein	Activity Assay, Cell Culture
Expression System	Prokaryotic expression
Species	Mouse
Tag	N-terminal His
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	5.9
Research Area	Enzyme & Kinase
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months Stable for 12 months if correctly stored.

IMAGES

$$\text{Specific Activity (pmol/min/}\mu\text{g)} = \frac{\Delta OD * F}{T * N}$$

ΔOD = Adjusted for Substrate Blank
 F = Conversion Factor (convert from standard curve of 4-Nitrophenol)
 T = Time
 N = Amount of enzyme

Bioactivity

One unit of enzyme activity is defined as the 1ug of enzyme required to convert 1pmol of 4-Nitrophenyl acetate to 4-Nitrophenol in 1min at 37 degree C. The specific activity of recombinant mouse CES1 is 158 pmol/min/ug.

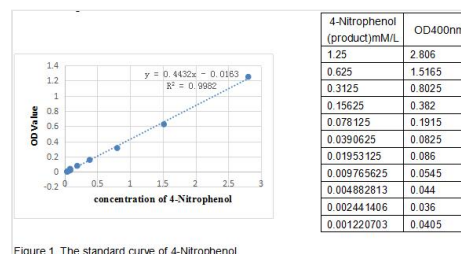
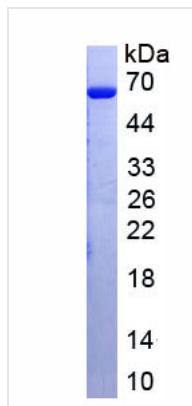


Figure 1. The standard curve of 4-Nitrophenol

Bioactivity

carboxylesterase 1(CES1) also known as Liver carboxylesterase 1 is a serine esterase and member of a large multigene carboxylesterase family. The protein Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs. Hydr



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for CES1 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	162287349
NCBI GeneID	12623
NCBI Accession #	NP_067431.2
NCBI GenBank Nucleotide #	NM_021456.4
UniProt Accession #	Q8VCC2; O55136
Molecular Weight	62,680 Da
NCBI Official Full Name	liver carboxylesterase 1
NCBI Official Synonym Full Names	carboxylesterase 1G
NCBI Official Symbol	Ces1g
NCBI Official Synonym Symbols	Ces1; Ces-1; Ses-1
NCBI Protein Information	liver carboxylesterase 1
UniProt Protein Name	Liver carboxylesterase 1
UniProt Gene Name	Ces1
UniProt Synonym Gene Names	Ces1g

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/carboxylesterase-1-ces1/153113>