

Carboxylesterase 3 (CES3) Active Protein | CES3 active protein

Active Carboxylesterase 3 (CES3)

CATALOG # AAA153135	HOST E coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Carboxylesterase 3 (CES3); Active Carboxylesterase 3 (CES3); Carboxylesterase 3; CES3 active protein (prokaryotic); Rat; Br3; ES31; Brain carboxylesterase 3; Esterase 31; Liver carboxylesterase 31 homolog; CES3 active protein

PRODUCT SPECIFICATIONS

Host	E coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose. Freeze-dried powder
Sequence Positions	Pro344~Leu565
Applicable Applications for CES3 active protein	Activity Assay, Cell Culture
Expression System	Prokaryotic expression
Species	Rat
Tag	N-terminal His
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.3
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.

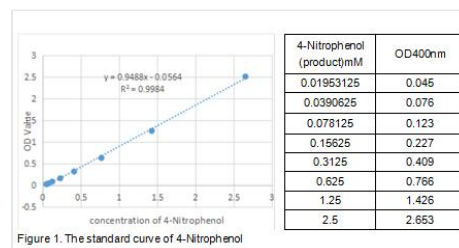
IMAGES

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

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

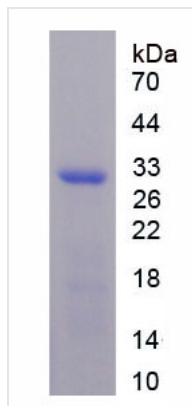
Bioactivity

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 Rat CES3 is 1200 pmol/min/ug.



Bioactivity

Carboxylesterase 3 (CES3) also known as Liver carboxylesterase 3 is a serine esterase and a member of a large family of carboxylesterases. The protein involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs. Hydroly



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for CES3 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	140969642
NCBI GeneID	113902
NCBI Accession #	NP_579829.3
NCBI GenBank Nucleotide #	NM_133295.3
UniProt Accession #	P16303; Q64574; Q6P785; Q91YG2; Q9QUX7; Q9R135
Molecular Weight	62,147 Da
NCBI Official Full Name	carboxylesterase 1D
NCBI Official Synonym Full Names	carboxylesterase 1D
NCBI Official Symbol	Ces1d
NCBI Official Synonym Symbols	Ces3
NCBI Protein Information	carboxylesterase 1D; ES-HVEL; FAEE synthase; pl 6.1 esterase; carboxylesterase 3; carboxyesterase ES-10; liver carboxylesterase 10; fatty acid ethyl ester synthase
UniProt Protein Name	Carboxylesterase 1D
UniProt Gene Name	Ces1d
UniProt Synonym Gene Names	Ces3; FAEE synthase
UniProt Entry Name	CES1D_RAT

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.