

Carboxylesterase 3 (CES3) Active Protein | CES3 active protein

Active Carboxylesterase 3 (CES3)

CATALOG # AAA153133	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); Human; 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	Ser398~Gln568
Applicable Applications for CES3 active protein	Activity Assay, Cell Culture
Expression System	Prokaryotic expression
Species	Human
Tag	N-terminal His
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	7.8
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.

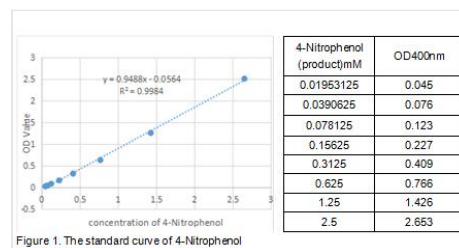
IMAGES

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

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

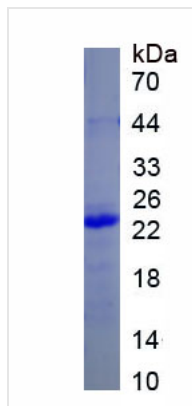
Bioactivity

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 human CES3 is 700 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 #	297747275
NCBI GeneID	23491
NCBI Accession #	NP_001172106.1
NCBI GenBank Nucleotide #	NM_001185177.1
UniProt Accession #	Q6UWW8; Q7Z6J1; Q9H6X7; B2Z3W9; F5H242
Molecular Weight	62,282 Da
NCBI Official Full Name	carboxylesterase 3 isoform 2
NCBI Official Synonym Full Names	carboxylesterase 3
NCBI Official Symbol	CES3
NCBI Official Synonym Symbols	ES31
NCBI Protein Information	carboxylesterase 3; esterase 31; carboxylesterase 3 (brain); liver carboxylesterase 31 homolog
UniProt Protein Name	Carboxylesterase 3
UniProt Gene Name	CES3
UniProt Entry Name	EST3_HUMAN

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-3-ces3/153133>