

Carboxylesterase 5A (CES5A) Active Protein | CES5A active protein

Active Carboxylesterase 5A (CES5A)

CATALOG # AAA153140	HOST E coli	APPLICATIONS Activity Assay, Cell Culture
-------------------------------	-----------------------	---

PRODUCT SYNONYMS

Carboxylesterase 5A (CES5A); Active Carboxylesterase 5A (CES5A); Carboxylesterase 5A; CES5A active protein (prokaryotic); Human; CES7; CES4C1; CES5; CAUXIN; Carboxylesterase-like urinary excreted protein homolog; CES5A 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	His383-Phe570
Applicable Applications for CES5A active protein	Activity Assay, Cell Culture
Expression System	Prokaryotic expression
Species	Human
Tag	N-terminal His and GST
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.

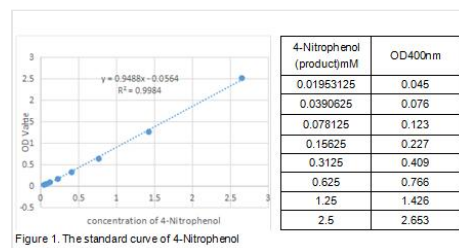
IMAGES

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

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

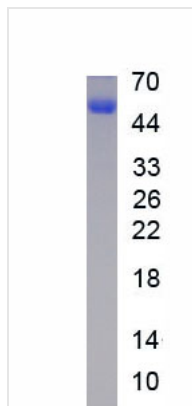
Bioactivity

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 human CES5A is 1300 pmol/min/ug.



Bioactivity

carboxylesterase 5A (CES5A) is a serine esterase and a member of a large multigene carboxylesterase family. The protein Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs. Hydrolyzes aromatic and aliphatic este



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for CES5A active protein	Active proteins
--	-----------------

NCBI AND UNIPROT INFORMATION

NCBI GI #	46854431
NCBI GeneID	221223
UniProt Accession #	Q6NT32; Q8NBC8; Q96DN9; B7Z252; B7ZLB6
Molecular Weight	67,487 Da
NCBI Official Full Name	Carboxylesterase 7
NCBI Official Synonym Full Names	carboxylesterase 5A
NCBI Official Symbol	CES5A
NCBI Official Synonym Symbols	CES5; CES7; CAUXIN; CES4C1; HEL126
NCBI Protein Information	carboxylesterase 5A; carboxylesterase 7; epididymis luminal protein 126; carboxylesterase-like urinary excreted protein homolog
UniProt Protein Name	Carboxylesterase 5A
UniProt Gene Name	CES5A
UniProt Synonym Gene Names	CES7; Cauxin
UniProt Entry Name	EST5A_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/carboxylesterase-5a-ces5a/153140>