

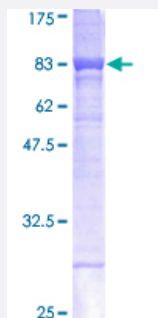
Full-Length

CES1 (Human) Recombinant Protein (P01)

Catalog # H00001066-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CES1 full-length ORF (AAH12418, 1 a.a. - 566 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MWLPALVLATLAASAAWGHPSPPVVDTVHGKVLGKFVSLEGFAQPVAIFLGIPFAKPPLGPLRF
TPPQPAEPWSFVKNATSYP MCTQDPKAGQLLSELF TNRKENIPLKLS EDCLYLNITPADLT KKN
RLPVMVWIHGGGLMVGAASYDGLALAAHENVVVVTIQYRLGTWGFFSTGDEHSRGNWGHLDQ
VAALRWVQDNIA SFGGNPGSVTIFGESAGGESVSVLVLSPLAKNLFHRAISESGVALTSVLVKKG
DVKPLAEQIAITAGCKTTTSAVMVHCLRQKTEEEELLETT LKMKFSLDLQGD PRESQPLLGTVIDG
MLLLKTPEELQAERNFHTVPYMGINKQEFGLIPMLMSYPLSEGQLDQKTAMSL LWKSYPLVCI
AKELIPEATEKYLGGTDDTVKKKDLFLDLIADVMFGVPSVIVARNHRDAGAPTYMYEFQYRPSFSS
DMKPKTVIGDHGDELFSVFGAPFLKEGASEEEIRLSKMVMKFWANFARNGNPNGEGLPHWPEY
NQKEGYLQIGANTQAAQKLKDKEVAFWTNLF AKKAVEKPPQTEHIEL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

87.78

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CES1

Entrez GeneID[1066](#)**GeneBank Accession#**[BC012418](#)**Protein Accession#**[AAH12418](#)**Gene Name**

CES1

Gene Alias

ACAT, CEH, CES2, HMSE, HMSE1, MGC117365, PCE-1, SES1, TGH

Gene Description

carboxylesterase 1 (monocyte/macrophage serine esterase 1)

Omim ID[114835](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Carboxylesterase 1 is a member of a large multigene family. The enzymes encoded by these genes are responsible for the hydrolysis of ester- and amide-bond-containing drugs such as cocaine and heroin. They also hydrolyze long-chain fatty acid esters and thioesters. This enzyme is known to hydrolyze aromatic and aliphatic esters and is necessary for cellular cholesterol esterification. It may also play a role in detoxification in the lung and/or protection of the central nervous system from ester or amide compounds. Carboxylesterase deficiency may be associated with non-Hodgkin lymphoma or B-cell lymphocytic leukemia. Three transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

acyl coenzyme A:cholesterol acyltransferase|carboxylesterase 1|carboxylesterase 2 (liver)|cholesteryl ester hydrolase|egasyn|liver carboxylesterase|triacylglycerol hydrolase

Pathway

- [Drug metabolism - other enzymes](#)
- [Tropane](#)

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Breast cancer](#)
- [Colorectal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)