



Recombinant Rat Carboxylesterase 1E (Ces1e)

Product Code	CSB-BP714111RA
Abbreviation	Ces1e
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q63108
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	HP SSLPVVDTLQ GKVLGKYVSL EGFTQPVAVF LGVPFAKPPL GSLRFAPPQP AEPWSFVKNT TSYPPMCSQD PVAGQIVNDL LTNWEENISL QFSEDCLYLN IYTPADLTKR DRLPVMVWIH GGGLVLGGAS TYDGLALSTH ENVVVVVIQY RLGIWGGFFST GDEHSRGNWG HLDQVAALHW VQDNIDNFGG DPGSVTIFGE SAGGESVSVL VLSPLAKNLF HKAISESGVA LTAGLVKKNT RPLAEKIAVV SGCKSTTSAS MVHCLRQKTE EELLETTKL NLFSLDLHGD SRQSYPFVPT VLDGVVLPKM PEEILAEKDF NTVPIYIVGIN KQEFGWILPT MMNYPPSDMK LDPMTATSL KSSFLNLP EEAI PVAVEK YLRHTDDPDR NKDQLLELIG DVIFGVPSVI VSRGHRDAGA RTYMYEFQYR PSFSSMKKPS TVVGDHGDEI YSVFGAPILR GGTSKEEINL SKMMMKEFWAN FARNGNPNGQ GLPHWPEYDQ KEGYLQIGAT TQQAQKLKEK EVAFWSELLA MKPLHAGHTE L
Source	Baculovirus
Target Names	Ces1e
Protein Names	Recommended name: Carboxylesterase 1E EC= 3.1.1.1 Alternative name(s): Carboxyesterase ES-3 ES-HTEL Egasyn Liver carboxylesterase 3 pI 5.5 esterase
Expression Region	19-561
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.