



# Recombinant Human Cocaine esterase (CES2)

<b>Product Code</b>	CSB-EP005259HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O00748
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>QDSA SPIRTTHTGQ VLGSLVHVKG ANAGVQTFLG IPFAKPPLGP            LRFAPPEPPE SWSGVRDGTG HPAMCLQDLT AVESEFLSQF NMTFPSDSMS            EDCLYLSIYT PAHSHEGSNL PVMVWIHGGA LVFGMASLYD GSMLAALENV            VVVIQYRLG VLGFFSTGDK HATGNWGYLD QVAALRWVQQ NIAHFGGNPD            RVTIFGESAG GTSVSSLVVS PISQGLFHGA IMESGVALLP GLIASSADVI            STVVANLSAC DQVDSEALVG CLRGKSKEEI LAINKPFKMI PGVVDGVFLP            RHPQELLASA DFQPVPISVG VNNNEFGWLI PKVMRIYDTQ KEMDREASQA            ALQKMLTLLM LPPTFGDLLR EEYIGDNGDP QTLQAQFQEM MADSMFVIPA            LQVAHFQCSR APVYFYEFQH QPSWLKNIRP PHMKADHGDE LPFVFRSFFG            GNYIKFTEEE EQLSRKMMKY WANFARNGNP NGEGLPHWPL FDQEEQYLQL            NLQPAVGRAL KAHRLQFWKK ALPQKIQELE EPEERHTEL</p>
<b>Source</b>	E.coli
<b>Target Names</b>	CES2
<b>Protein Names</b>	Recommended name: Cocaine esterase EC= 3.1.1.84 Alternative name(s): Carboxylesterase 2 Short name= CE-2 Short name= hCE-2 EC= 3.1.1.1 Methylumbelliferyl-acetate deacetylase 2 EC= 3.1.1.56
<b>Expression Region</b>	27-559
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	<p>Carboxylesterase 2 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. The specific function of this enzyme has not yet been determined; however, it is speculated that carboxylesterases may play a role in lipid metabolism and/or the blood-brain barrier system. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.</p>
<b>Reconstitution</b>	<p>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</p>



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.