Recombinant Human Cocaine esterase (CES2)

Product Code	CSB-BP005259HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O00748
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	QDSA SPIRTTHTGQ VLGSLVHVKG ANAGVQTFLG IPFAKPPLGP LRFAPPEPPE SWSGVRDGTT HPAMCLQDLT AVESEFLSQF NMTFPSDSMS EDCLYLSIYT PAHSHEGSNL PVMVWIHGGA LVFGMASLYD GSMLAALENV VVVIIQYRLG VLGFFSTGDK HATGNWGYLD QVAALRWVQQ NIAHFGGNPD RVTIFGESAG GTSVSSLVVS PISQGLFHGA IMESGVALLP GLIASSADVI STVVANLSAC DQVDSEALVG CLRGKSKEEI LAINKPFKMI PGVVDGVFLP RHPQELLASA DFQPVPSIVG VNNNEFGWLI PKVMRIYDTQ KEMDREASQA ALQKMLTLLM LPPTFGDLLR EEYIGDNGDP QTLQAQFQEM MADSMFVIPA LQVAHFQCSR APVYFYEFQH QPSWLKNIRP PHMKADHGDE LPFVFRSFFG GNYIKFTEEE EQLSRKMMKY WANFARNGNP NGEGLPHWPL FDQEEQYLQL NLQPAVGRAL KAHRLQFWKK ALPQKIQELE EPEERHTEL
Source	Baculovirus
Target Names	CES2
Protein Names	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
Expression Region	27-559
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 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 hydrolize 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.
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.