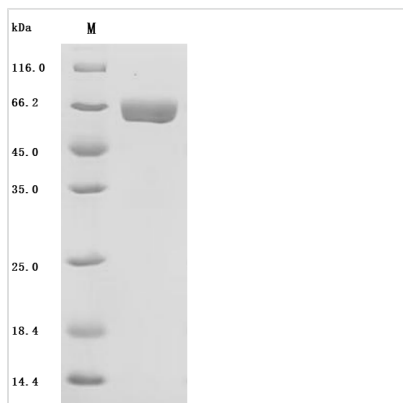




Recombinant Human Cocaine esterase (CES2) (Active)

Product Code	CSB-MP005259HU
Abbreviation	Recombinant Human CES2 protein (Active)
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.	O00748
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its ability to hydrolyze p-nitrophenylacetate. The specific activity is >40000 pmol/min/µg.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	QDSASPIRTTHTGQVLGSLVHVKGANAGVQTFLGIPFAKPPLGPLRFAPPEPP ESWSGVRDGTTHPAMCLQDLTAVESEFLSQFNMTFPSDSMSSEDCLYLSIYTP AHSHEGSNLPVMVWIHGGALVFGMASLYDGSMLAALENVVVVIIQYRLGV LGF FSTGDKHATGNWGYLDQVAALRWVQQNIAHFGGNPDRVTIFGESAGGTSVS SLVVSPISQGLFHGAIMESGVALLPGLIASSADVISTVVANLSACDQVDSEALVG CLRGKSKEEILAINKPFKMIPGVVDGVFLPRHPQELLASADFQVPVPSIVGVNNN EFGWLIPKVMRIYDTQKEMDREASQAALQKMLTLLMLPPTFGDLLREEYIGDN GDPQTLQAQFQEMMADSMFVIPALQVAHFQCSRAPVYFYEFQHQP SWLKNIR PPHMKADHGDELFPVFRSFFGGNYIKFTEEEEQLSRKMMKYWANFARNGNP NGEGLPHWPLFDQEEQYLQLNLQPAVGRALKAHRLQFWKKALPQKIQELEEP EERHTEL
Source	Mammalian cell
Target Names	CES2
Expression Region	27-559aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	60.3 kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Enzyme	Human CES2 (CSB-MP005259HU)	0.125µg/well
Substrate	4-Nitrophenyl Acetate (4-NPA) (Sigma N8130)	1mM
Reaction system	/	100µl
Reading Buffer	50 mM Tris , pH 8.0	100µl
Reaction conditions	37°C and 10min in dark	/
Assay Buffer	50 mM Tris , pH 7.5	/
Enzyme activity unit (U/mg)	>40000 pmol/min/µg	/

Activity

Measured by its ability to hydrolyze p-nitrophenylacetate. The specific activity is >40000 pmol/min/µg.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

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.