



Recombinant Human Liver carboxylesterase 1 (CES1) (Active)

Product Code	CSB-MP005258HU
Abbreviation	Recombinant Human CES1 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.	P23141
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	≥ 95% as determined by SDS-PAGE. ≥ 95% as determined by SEC-HPLC.
Sequence	GHPSSPPVVDTVHKGVLGKFVSLEGFAQPVAIFLGIPFAKPPLGPLRFTPPQPA EPWSFVKNATSYP MCTQDPKAGQLLSELF TNRKENIPLKLS EDCLYLNIYT PA DLTKNRLPVMVWIHGGGLMVGAASTYDGLALAAHENVVVVTIQYRLGIWGF STGDEHSRGNWGHLDQVAALRWVQDNIA SFGGNPGSVTIFGESAGGESVSV LVLSPLAKNLFHRAISEGVALTSVLVKKGDVKPLAEQIAITAGCKTTTSAVMVH CLRQKTEEELLETTLMKFLSLDLQGD PRESQPLLGTVIDGM LLLKTPEELQAE RNFHTVPYMGINKQEFGLIPMQLMSYPLSEGQLDQKTAM SLLWKSYP LVC I AKELIPEATEKYLGGTDDTVKKKDLFLDLIADVMFGVPSVIVARNHRDAGAPTY MYEFQYRPSFSSDMKPKTVIGDHGDELFSVFGAPFLKEGASEEEIRLSKMVMK FWANFARNGNPNGEGLPHWPEYNQKEGYLQIGANTQAAQKLKDKEVAFWTN LFAKKAVEKPPQTEHIEL
Source	Mammalian cell
Target Names	CES1
Expression Region	18-567aa
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	62.0 kDa
Protein Length	Full Length of Mature Protein



Image

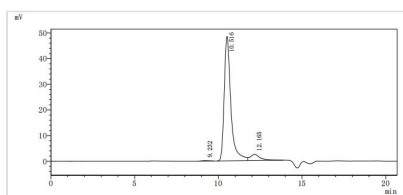


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Enzyme	Human CES1 (CSB-MP005258HU)	0.25 μ g/well
Substrate	4-NPA (sigma, N8130)	1mM
Reaction system	/	100 μ l
Reaction conditions	37°C and 5min in dark	/
Buffer	50 mM Tris, pH 7.5	/
Enzyme activity	>40000 pmol/min/ μ g	/

Activity

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



The purity of CES1 was greater than 95% as determined by SEC-HPLC

Endotoxin

Less than 1.0 EU/ μ g 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

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