

Active Recombinant Human CES3 protein, His-tagged

Cat. No. CES3-897H Lot. No. (See product label)

SPECIFICATION

Product Overview Active Recombinant Human CES3 protein(Q6UWW8)(398-568 aa), fused with N-terminal His tag, was expressed in E.coli.

Species Human

Source E.coli

ProteinLength 398-568 aa

Form PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Bio-activity

Carboxylesterase 3 (CES3) also known as Liver carboxylesterase 3 is a serine esterase and a member of a large family of carboxylesterases. The protein Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs. Hydrolyzes aromatic and aliphatic esters, but has no catalytic activity toward amides or a fatty acyl-CoA ester. Hydrolyzes the methyl ester group of cocaine to form benzoylecgonine. Thus, the recombinant human CES3 activity was measured by its ability to hydrolyze 4-Nitrophenyl acetate (4-NPA) to 4-Nitrophenol. The reaction was performed in 50 mM Tris, pH 7.5(Assay Buffer), initiated by addition 50 µL of various concentrations of CES3 (dilute by Assay Buffer) to 50 µ of 2 mM Substrate 4-NPA(100 mM stock in Acetone, dilute by deionized water). Incubated at 37°C for 10min, then read at a wavelength of 400 nm. One unit of enzyme activity is defined as the 1µg of enzyme required to convert 1pmol of 4-Nitrophenyl acetate to 4-Nitrophenol in 1min at 37°C. The specific activity of recombinant human CES3 is 700

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	pmol/min/g.
Molecular Mass	23.4kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CES3 carboxylesterase 3 [Homo sapiens]
Official Symbol	CES3
Synonyms	CES3; carboxylesterase 3; carboxylesterase 3 (brain); brain carboxylesterase BR3; ES31; esterase 31; FLJ21736; liver carboxylesterase 31 homolog;
Gene ID	23491
mRNA Refseq	NM_001185176
Protein Refseq	NP_001172105
MIM	605279

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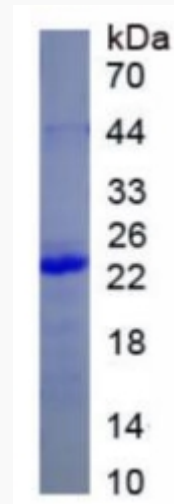
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UniProt ID

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SDS-PAGE



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