

Active Recombinant Human CES2 protein, His-tagged

Cat. No. CES2-749H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human CES2 protein(O00748)(27-559 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	27-559 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Carboxylesterase 2 (CES2) is a member of serine esterase family which can hydrolyze ester and amide bonds. 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 CES2 activity was measured by its ability to hydrolyze 4-Nitrophenyl acetate (4-NPA) to 4-Nitrophenol. The reaction was performed in 50 mM Tris, 150 mM NaCl, pH 7.5 (Assay Buffer), ainitiated by addition 50 µL of various concentrations of CES2 (diluted by Assay Buffer) to 50 µ of 2 mM Substrate 4-NPA (100 mM stock in Acetone, diluted by Assay Buffer). Incubated at 37°C for 10 min, then read at a wavelength of 400 nm.
Molecular Mass	60.6kDa

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Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95%
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

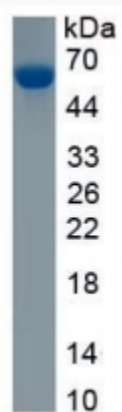
Gene Name	CES2 carboxylesterase 2 [Homo sapiens]
Official Symbol	CES2
Synonyms	CES2; carboxylesterase 2; carboxylesterase 2 (intestine, liver); cocaine esterase; CE 2; CES2A1; iCE; hCE-2; methylumbelliferyl-acetate deacetylase 2; intestinal carboxylesterase; liver carboxylesterase-2; CE-2; PCE-2;
Gene ID	8824
mRNA Refseq	NM_003869
Protein Refseq	NP_003860
MIM	605278
UniProt ID	O00748

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