Active Recombinant Human CES5A protein, His-GST-tagged

Cat. No. CES5A-752H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human CES5A protein(Q6NT32)(383-570 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	383-570 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	carboxylesterase 5A (CES5A) is a serine esterase and a member of a large multigene carboxylesterase family. 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 CES5A 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 CES5A (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 CES5A is 1300 pmol/min/µ.

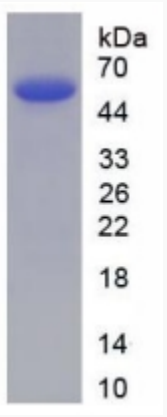
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Molecular Mass	51.7kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CES5A carboxylesterase 5A [Homo sapiens]
Official Symbol	CES5A
Synonyms	CES5A; carboxylesterase 5A; carboxylesterase 7 , CES7; CAUXIN; CES4C1; CES5; FLJ31547; carboxylesterase 5; carboxylesterase 7; carboxylesterase-like urinary excreted protein homolog; CES7;
Gene ID	221223
mRNA Refseq	NM_145024
Protein Refseq	NP_659461
UniProt ID	Q6NT32

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