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Product Datasheet

Human CES1 protein, His tag, Unconjugated GTX00177-PRO

Artikelname	Human CES1 protein, His tag, Unconjugated
Artikelnummer	GTX00177-PRO
Hersteller Artikelnummer	GTX00177-pro
Alternativnummer	GTX00177-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Human
Konjugation	Unconjugated
NCBI	1066
UniProt	P23141
Puffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Formulierung	Lyophilized powder
Sequenz	N-terminal His-Tag, Gly18~Leu299 (NP_001020365.1)

Anwendungsbeschreibung

Carboxylesterase 1 (CES1) also known as Liver carboxylesterase 1 is a serine esterase and 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 CES1 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, the Assay Buffer), initiated by addition 50 µl of various concentrations of CES1 (dilute by assay buffer) to 50 µl of 2 mM Substrate 4-NPA (100mM stock in Acetone, dilute by deionized water). Incubated at 37C for 10min, then read at a wavelength of 400nm. One unit of enzyme activity is defined as the 1 µg of enzyme required to convert 1 pmol of 4-Nitrophenyl acetate to 4-Nitrophenol in 1min at 37C. The specific activity of recombinant human CES1 is 1396 pmol/min/µg.