
Product Data Sheet

Product Name: CES2E Mouse

Cat. No.: GP26138

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition with Ice Packs

Synonyms 9030624L02Rik, Ces5, Ces2e.

Amino Acid Sequence

QDSASPIRNT HTGQVRGSLV HVKDTDIAVH TFLGIPFAKP PVGPLRFAPP
 EAPEPWSGVR DGTSHPNMCL QNDNLMGSED LKMMNLILPP ISMSEDCLYL
 NIYVPAHAHE GSNLPVMVWI HGGALTVGMA SMYDGSMMLAA TEDVVVVAIQ
 YRLGVLGFFS TGDQHAKGNW GYLDQVAALR WVQQNIVHFG GNPDRVITFG
 ESAGGTSVSS HVVSPMSQGL FHGAIMESGV AVLPDLISSSEMVRIVAN
 LSGCAAVNSE TLMCCLRGKN EAEMLAINKV FKIPGVVDG EFLPKHPQEL
 MASKDFHPVP SIIGINNDEY GWILPTIMDP AQKIEEITRK TLPVAVLKSTA
 LKMMMLPPECG DLLMEEYMGD TEDPETLQAQ FREMKGDFMF VIPALQVAHF
 QRSHAPVYFY EFQHRPSFFK DFRPPYVKAD HGDEIFLVFG YQFGNIKLPY
 TEEEEQLSRR IMKYWANFAR HGNPNSEGLP YWPVMDHDEQ YLQLDIQPSV
 GRALKARRLQ FWTKTLPQKI QELKGSQERH KELLEHHHHH H

Formulation

The CES2E solution (0.25 mg/ml) contains 10% Glycerol and Phosphate-Buffered Saline (pH 7.4).

Introduction

Carboxylesterase 2E or CES2E is an enzyme that hydrolyzes various carboxylic acid esters. This enzyme can be found mainly in mammalian liver cells. CES2E is taking part in chemical reactions, especially in carboxylic ester and water catalyzation to alcohol & carboxylate.

Biological Activity

Specific activity is > 30unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0 umole of p-nitrophenyl acetate to p-nitrophenol per minute at pH 7.5 at 25C?.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CES2E Mouse produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 541 amino acids (27-559 aa) and having a molecular mass of 60.5kDa. CES2E is fused to a 8 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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