Product information

Pyrethroid hydrolase Ces2e, 27-559aa

Mouse, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3273

NCBI Accession No.: NP_766347

Synonyms: 9030624L02Rik, Ces5, Ces2e

Description: CES2E, also known as pyrethroid hydrolase Ces2e, is a type of enzyme that capable of hydrolyzing a variety of carboxylic acid esters and it is widely distributed in cells especially in mammalian liver. It is involved in the chemical reaction, exerting its role in catalyzing the carboxylic ester and water to convert to an alcohol and a carboxylate. Recombinant mouse CES2E, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 60.5kDa (541aa)
50-70kDa (SDS-PAGE under reducing conditions)

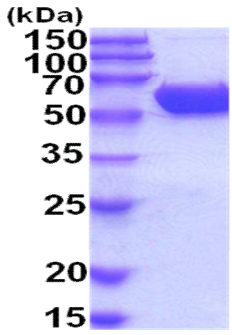
Predicted N terminal: Gln27

Purity: > 95% by SDS – PAGE.

Concentration: 0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1μg of protein (determined by LAL method)

Biological activity: Specific activity is > 30 units/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.



15% SDS-PAGE (3ug)

Sequences of amino acids:

QDSASPIRNT HTGQVRGSLV HVKDTDIAVH TFLGIPFAKP PVGPLRFAPP EAPEPWSGVR DGTSHPNMCL QNDNLMGSED LKMMNLILPP ISMSEDCLYL NIYVPAHAHE GSNLPVMVWI HGGALTVGMA SMYDGSMLAA TEDVVVVAIQ YRLGVLGFFS TGDQHAKGNW GYLDQVAALR WVQQNIVHFG GNPDRVTIFG ESAGGTSVSS HVVSPMSQGL FHGAIMESGV AVLPDLISSS SEMVHRIVAN LSGCAAVNSE TLMCCLRGKN EAEMLAINKV FKIIPGVVDG EFLPKHPQEL MASKDFHPVP SIIGINNDEY GWILPTIMDP AQKIEEITRK TLPAVLKSTA LKMMLPPECG DLLMEEYMGD TEDPETLQAQ FREMKGDFMF VIPALQVAHF QRSHAPVYFY EFQHRPSFFK DFRPPYVKAD HGDEIFLVFG YQFGNIKLPY TEEEEQLSRR IMKYWANFAR HGNPNSEGLP YWPVMDHDEQ YLQLDIQPSV GRALKARRLQ FWTKTLPQKI QELKGSQERH KELLEHHHHH H

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General references:

Stok JE., *et al.* (2004) *J Biol Chem.* 279:29863-29869.

Holmes RS., *et al.* (2008) *Comp Biochem Physiol Part D Genomics Proteomics.* 3:196-204.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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