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Recombinant Mouse Carboxylesterase 2E/CES2E Protein (His Tag)

Catalog No. PKSM040582

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Pyrethroid hydrolase Ces2e;carboxylesterase

2E;Ces5;1700081L16Rik;1700122C07Rik;BB081581;cauxin;Ces7;Gm503

Species Mouse

Expression Host

Sequence

Met 1-His 556

Accession

NP_766347.1

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met 1-His 556

NP_766347.1

60.6 kDa

52 kDa

C-His

Bioactivity Measured by its ability to hydrolyze pnitrophenylacetate. The specific activity is >

50, 000 pmoles/min/µg.

Properties

Purity > 88 % as determined by reducing SDS-PAGE.

Endotoxin $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 25mM Tris, 150mM NaCl, pH 7.5

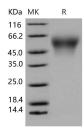
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 88 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: <u>www.elabscience.com</u> Email: <u>techsupport@elabscience.com</u>

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Carboxylesterase belongs to the class of serine hydrolases family which includes Chymotrypsin and Acetylcholinesterase. Carboxylesterase is involved in the chemical reaction, exerting its role in catalyzing the carboxylic ester and water to convert to an alcohol and a carboxylate. Carboxylesterase is a type of enzyme that capable of hydrolyzing a variety of carboxylic acid esters and it's widely distributed in cells especially in mammalian liver. Carboxylesterase 5 (CES5), also known as cauxin or CES7, is one of CES enzyme families exerting role in catalyzing hydrolytic and transesterfication reactions with broad substrat specifity. CES5 is reported in high concentrations in the urine of adult male cats, and within a protein complex of mammalian male epididymal fluids. Roles for carboxylesterase 5 may include regulating urinary levels of cat pheromone, catalyzing lipid transfer reactions within mammalian male reproductive fluids, and protecting neural tissue from drugs and xenobiotics.

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