



Recombinant Protein Technical Manual
Recombinant Mouse Carboxylesterase 2E/CES2E
Protein (His Tag)
RPES5031

Product Data:

Product SKU: RPES5031

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q8BK48

Protein Information:

Molecular Mass: 62.9 kDa

AP Molecular Mass: 58-65 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Pyrethroid hydrolase Ces2e; carboxylesterase 2E;
Ces5;1700081L16Rik;1700122C07Rik;BB081581;cauxin;Ces7;Gm503

Immunogen Information:

Sequence: Met1-His556

Background:

Carboxylesterase 5 (CES5), also called cauxin or CES7, is a member of carboxylesterases family which plays an important role in the hydrolysis of ester and amide bonds. 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. CES5 is with broad substrate specificity ranging from small molecule esters to longchain fatty acid esters and thioesters. It has been previously reported CES5 was in high concentrations in the urine (cauxin) of adult male cats, and within a protein complex of mammalian male epididymal fluids. Roles for CES5 may include regulating urinary levels of male cat pheromones, catalyzing lipid transfer reactions within mammalian male reproductive fluids, and protecting neural tissue from drugs and xenobiotics.