



Recombinant Protein Technical Manual

**Recombinant Mouse Carboxylesterase-2/CES2
Protein (His Tag)(Active)**
RPES1598

Product Data:

Product SKU: RPES1598

Size: 10µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: NP_663578.1

Protein Information:

Molecular Mass: 60.4 kDa

AP Molecular Mass: 52 kDa

Tag: C-His

Bio-activity: Measured by its ability to hydrolyze pnitrophenylacetate. The specific activity is >90,000 pmoles/min/µg.

Purity: > 85 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein 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 sterile PBS, pH 7.4

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

Application:

Synonyms: ces2A3

Immunogen Information:

Sequence: Met 1-Lys 557

Background:

Carboxylesterase 2 (CES2) is a member of the carboxylesterase family and belongs to the multigene family. Carboxylesterase 2 is responsible for the hydrolysis of ester- and amide-bond-containing drugs such as cocaine and beroin. It also serves to hydrolyze long-chain fatty acid esters and thioesters. It is speculated that carboxylesterases may play a role in lipid metabolism and the blood-brain barrier system and together with isform 1, are a serine esterase involved in both drug metabolism and activation. Human carboxylesterase 2 is commonly expressed in tumor tissues and irinotecan, a topoisomerase I inhibitor commonly used in the treatment of many solid tumors.