

Recombinant Mouse Carboxylesterase 1D/SES1D Protein (His Tag)

Catalog Number: PKSM040714

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

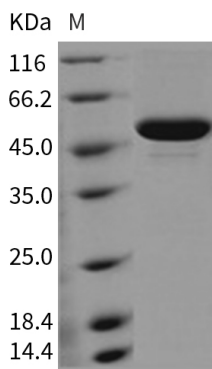
Description

Species	Mouse
Source	HEK293 Cells-derived Mouse Carboxylesterase 1D/SES1D protein Met1-Glu561, with an C-terminal His
Calculated MW	60.8 kDa
Observed MW	53 kDa
Accession	NP_444430.2
Bio-activity	Measured by its ability to hydrolyze p-nitrophenylacetate. The specific activity is > 11000 pmoles/min/μg.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg 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 PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 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



> 90 % as determined by reducing SDS-PAGE.

Background

Mouse Carboxylesterases 3 (CES3) is a member of five families of mammalian carboxylesterases that plays a role in catalyzing hydrolytic and transesterification reactions with xenobiotics, anticancer pro-drugs and narcotics, and detoxifying organophosphates and insecticides. Mammalian carboxylesterases are enzymes with broad substrate specificities ranging from small molecule esters to longchain fatty acid esters. It is shown that CESs has key roles in the metabolism of a wide variety of clinical drugs, illicit narcotics and chemical nerve agents. CES3 is broadly expressed in liver, colon and brain.

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