

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

Catalog No. PKSM040975

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

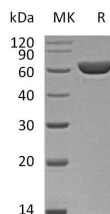
Description

Synonyms	CES3;carboxylesterase 3;carboxylesterase 3 (brain);EC 3.1.1;EC 3.1.1.1;ES31FLJ21736;Esterase 31;Liver carboxylesterase 31 homolog
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Tyr19-Glu561
Accession	Q8VCT4
Calculated Molecular Weight	62.4 kDa
Observed molecular weight	58-70 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % 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 a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0. 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



> 95 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

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.