

Recombinant Human CES2 Protein, His-tagged

CES2-22H Human

Lot. No. (See product label)

Specification

Product Overview Recombinant human CES2 protein (Gln27-Leu559) with a C-terminal 10-His tag was expressed in mouse myeloma cell line.

Description This gene encodes a member of the carboxylesterase large family. The family members are responsible for the hydrolysis or transesterification of various xenobiotics, such as cocaine and heroin, and endogenous substrates with ester, thioester, or amide bonds. They may participate in fatty acyl and cholesterol ester metabolism, and may play a role in the blood-brain barrier system. The protein encoded by this gene is the major intestinal enzyme and functions in intestine drug clearance. Alternatively spliced transcript variants have been found for this gene.

Source NS0

Species Human

Tag His

Bio-activity Measured by its ability to hydrolyze p-nitrophenylacetate. The specific activity is >30,000 pmol/min/μg, measured under the described conditions.

Molecular Mass 60 kDa

N-terminal Sequence Analysis Gln27 predicted

Endotoxin <1.0 EU per 1 μg of the protein by the LAL method.

Purity >95%, by SDS-PAGE under reducing conditions and visualized by silver stain

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
6 months from date of receipt, -70 centigrade as supplied.
3 months, -70 centigrade under sterile conditions after opening.

Storage Buffer Supplied as a 0.2 μm filtered solution in Sodium Acetate, NaCl and Glycerol.

Gene Information

Gene Name [CES2](#)

Official Symbol [CES2 carboxylesterase 2 \[Homo sapiens \(human\) \]](#)

Synonyms Carboxylesterase 2; CE-2; CES2; PCE-2; carboxylesterase 2; iCE; CES2A1; cocaine esterase; carboxylesterase 2 (intestine, liver); hCE-2; intestinal carboxylesterase; liver carboxylesterase-2; methylumbelliferyl-acetate deacetylase 2; EC 3.1.1.1; EC 3.1.1.56; EC 3.1.1.84

Gene ID [8824](#)

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mRNA Refseq [NM_003869](#)

Protein Refseq [NP_003860](#)

MIM [605278](#)

UniProt ID [O00748](#)

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