

CES2 Antibody (Center) Blocking peptide

Synthetic peptide Catalog # BP10661c

Specification

CES2 Antibody (Center) Blocking peptide - Product Information

Primary Accession

000748

CES2 Antibody (Center) Blocking peptide - Additional Information

Gene ID 8824

Other Names

Cocaine esterase, Carboxylesterase 2, CE-2, hCE-2, Methylumbelliferyl-acetate deacetylase 2, CES2, ICE

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CES2 Antibody (Center) Blocking peptide - Protein Information

Name CES2 (HGNC:1864)

Synonyms ICE

Function

Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs (PubMed:9169443). Shows high catalytic efficiency for hydrolysis of cocaine, 4-methylumbelliferyl acetate, heroin and 6-monoacetylmorphine (PubMed:9169443). Hydrolyzes aspirin, substrates with large alcohol group and small acyl group and endogenous lipids such as triacylglycerol (PubMed:28677105). Converts monoacylglycerides to free fatty acids and glycerol. Hydrolyzes of 2- arachidonoylglycerol and prostaglandins (PubMed:21049984).

Cellular Location

Endoplasmic reticulum lumen

Tissue Location



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Preferentially expressed in intestine with moderate expression in liver. Within the intestine, highest expression is found in small intestine with lower expression in colon and rectum

CES2 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

• Blocking Peptides

CES2 Antibody (Center) Blocking peptide - Images

CES2 Antibody (Center) Blocking peptide - Background

CES2 is a member of the carboxylesterase largefamily. The family members are responsible for the hydrolysis ortransesterification of various xenobiotics, such as cocaine andheroin, and endogenous substrates with ester, thioester, or amidebonds. They may participate in fatty acyl and cholesterol estermetabolism, and may play a role in the blood-brain barrier system. The protein encoded by this gene is the major intestinal enzyme andfunctions in intestine drug clearance.

CES2 Antibody (Center) Blocking peptide - References

Holmes, R.S., et al. Mamm. Genome 21 (9-10), 427-441 (2010) :Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Howard, T.D., et al. Environ. Health Perspect. 118(10):1395-1399(2010)Hatfield, M.J., et al. Br. J. Pharmacol. 160(8):1916-1928(2010)Holmes, R.S., et al. Genetica 138(7):695-708(2010)