

Recombinant Human CES5A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CES5A-1825H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CES7 MS Standard C13 and N15-labeled recombinant protein (NP_659461) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 also participate in fatty acyl and cholesterol ester metabolism, and may play a role in the blood-brain barrier system. This gene, also called CES5, is predominantly expressed in peripheral tissues, including brain, kidney, lung and testis. It encodes a secreted enzyme. Because of high levels in the urine of male domestic cats, this enzyme is also called cauxin (carboxylesterase-like urinary excreted protein). The enzyme functions in regulating the production of a pheromone precursor and may contribute to lipid and cholesterol transfer processes within male reproductive fluids. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	58 kDa
AA Sequence	MSGNWWHPGQILIWVLAAPTKGPSAEGPQRNTRLGWIQKGKQVTVLGSPVPVNV

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FLGVPFAAPPLGSLRFTNPQPASPWDNLREATSYPNLCLQNSEWLLLDQHMLKVHY
 PKFGVSEDCLYLNİYAPAHADTGSKLPVLVWFPGGAFKTGSASIFDGSALAAYEDVL
 VVVVQYRLGIFGFFTTWDQHAPGNWAFKDQVAALSWVQKNIEFFGGDPSSVTIFGE
 SAGAI SVSSLILSPMAKGLFHKAIMESGVAIIPYLEAHDYEKSEDLQVVAHFCGNNAS
 DSEALLRCLRTKPSKELLTSLQKTKSFTRVVDGAFFPNEPLDLLSQKAFKAIPSIIGVN
 NHECGFLLPMKEAPEILSGSNKSLALHLIQNILHIPPQYLHLVANEYFHDKHSLTEIRD
 SLLDLLGDVFFVVPALITARYHREGATEEEKLLSRKMMKYWATFARTGNPNGNDLSL
 WPAYNLTEQYLQLDLNMSLGQRLKEPRVDFWTSTIPLILSASDMLHSPLSSLTFLSL
 QPFFFFCAPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CES5A carboxylesterase 5A [Homo sapiens (human)]

Official Symbol CES5A

Synonyms CES5A; carboxylesterase 5A; carboxylesterase 7, CES7; CAUXIN; CES4C1; CES5; FLJ31547; carboxylesterase 5; carboxylesterase 7; carboxylesterase-like urinary excreted protein homolog; CES7;

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Gene ID	221223
mRNA Refseq	NM_145024
Protein Refseq	NP_659461
MIM	618678
UniProt ID	Q6NT32
SDS-PAGE	