

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 | <p>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.</p> |
| Molecular Mass | 58 kDa |
| AA Sequence | MSGNWWHPGQILIWVLAAPTCKGSAEGPQRNTRLGWIQGKQVTVLGSPVPVNV |

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FLGVPFAAPPLGSLRFTNPQPASPWDNLREATSYPNLCLQNSEWLLLDQHMLKVHY
 PKFGVSEDCLYLNIYAPAHADTGSKLPVLVWFPGGAFKTSASIFDGSALAAYEDVL
 VVVVQYRLGIFGFFTTWDQHAPGNWAFKDQVAALSWVQKNIEFFGGDPSSVTIFGE
 SAGAISVSSLILSPMAKGLFHKAIMESGVAIIPYLEAHDYEKSEDLQVVAHF CGNNAS
 DSEALLRCLRTKPSKELLTSLQKTKSFTRVVDGAFFPNEPLDLLSQKAFKAIPSIIGVN
 NHECGFLLPMKEAPEILSGSNKSLALHLIQNILHIPPQYLHLVANEYFHDKHSLTEIRD
 SLLDLLGDVFFVVPALITARYHREGATEEEKLLSRKMMKYWATFARTGNPNGNDLSL
 WPAYNLTEQYLQLDLNMSLGQRLKEPRVDFWTSTIPLILSASDMLHSPLSSLTFLSLL
 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; |

Gene ID 221223

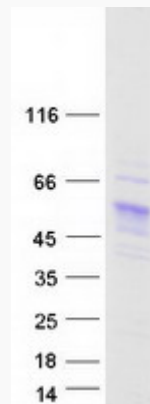
mRNA Refseq NM_145024

Protein Refseq NP_659461

MIM 618678

UniProt ID Q6NT32

SDS-PAGE



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