

Recombinant Full Length Human CES5A Protein, GST-tagged

Cat. No. CES5A-3898HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CES7 full-length ORF (BAB71094.1, 1 a.a. - 525 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	525 amino acids
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. [provided by RefSeq, Jun 2010]</p>
Molecular Mass	84.6 kDa
AA Sequence	MSGNWWHPGQILIWAIWVLAAPTKGPSAEGPQRNTRLGWIQGKQVTVLGSPVPVNV

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FLGVPFAAPPLGSLRFTNPQPASPWDNLREATSYPNLCLQNSEWLLLDQHMLKVHY
 PKFGVSEDCLYLNIYAPAHADTGSKLPVLVWFPGGAFKTGSASIFDGSALAAYEDVL
 VVVVQYRLGIFGFFTTWDQHAPGNWAFKDQVAALSWVQKNIEFFGGDPSSVTIFGE
 SAGAISVSSLILSPMAKGLFHKAIMESGVAIIPYLEAHDYEKSEDLQVVAHF CGNNAS
 DSEALLRCLRTKPSKELLTSLQKTKSFTRVVDGAFFPNEPLDLLSQKAFKAIPSIIGVN
 NHECGFLLPMKEAPEILSGSNKSLALHLIQNILHIPPQYLHLVANEYFHDKHSLTEIRD
 SLLDLLGDVFFVVPALITARYHREGATEEEKLLSRKMMKYWATFARTGNPNGNDLSL
 WPAYNLTEQYLQLDLNMSLGQRLKEPRVDFWTSTIPLILSASDMLHSPLSSLTFLSLL
 QPFFFFCAP

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes
 Best use within three months from the date of receipt of this protein.

Storage
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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

Official Symbol [CES5A](#)

Synonyms
 CES7; CES5A; carboxylesterase 5A; CES5; CAUXIN; CES4C1; HEL126;
 carboxylesterase 5A; carboxylesterase 5; carboxylesterase 7; carboxylesterase-like
 urinary excreted protein homolog; epididymis luminal protein 126; EC 3.1.1.1

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Gene ID	221223
mRNA Refseq	NM_001143685
Protein Refseq	NP_001137157
MIM	618678
UniProt ID	Q6NT32

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