

## Product datasheet for **TP310205M**

### Carboxylesterase 7 (CES5A) (NM\_145024) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human carboxylesterase 7 (CES7), transcript variant 2, 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone** >RC210205 representing NM\_145024

**or AA Sequence:** **Red**=Cloning site **Green**=Tags(s)

MSGNWWHPGQILIWAIWVLAAPTCKGSAEGPQRNTRLGWIQKQVTVLGSPVPVNVFLGVPFAAPPLGSL  
RFTNPQPASPWDNLREATSYPNLCLQNSEWLLLDQHMLKVHYPKFGVSEDCLYLNİYAPAHADTGSKLPV  
LWVFPGGAFKTSASIFDGSALAAEDVLVWVQYRLGIFGFFTTWDQHAPGNWAFKDQVAALSWVQKNI  
EFFGGDPSSVTIFGESAGAISVSSLILSPMAKGLFHKAIMESGVAIIPYLEAHDYEKSEDLQVVAHFCGN  
NASDSEALLRCLRTKPSKELLTSLQKTKSFTRVVDGAFFPNEPLDLLSQKAFKAIPSIIGVNNHECGFLL  
PMKEAPEILSGSNKSLALHLIQNILHIPPQYLHLVANEYFHDKHSLTEIRDSLLDLLGDVFFVWPALITA  
RYHREGATEEEKLLSRKMMKYWATFARTGNPNGNDLSLWPAYNLTEQYLQLDLNMSLGQRLKEPRVDFWT  
STIPLILSASDMLHSPLSSLTFLSLLQPFFFCAP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 58 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

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

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



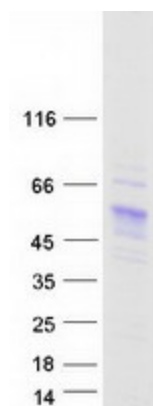
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RefSeq:	<a href="#">NP_659461</a>
Locus ID:	221223
UniProt ID:	<a href="#">Q6NT32</a> , <a href="#">V9HWK3</a>
RefSeq Size:	1962
Cytogenetics:	16q12.2
RefSeq ORF:	1575
Synonyms:	CAUXIN; CES4C1; CES5; CES7; HEL126

**Summary:** 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]

<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Drug metabolism - other enzymes

### Product images:



Coomassie blue staining of purified CES5A protein (Cat# [TP310205]). The protein was produced from HEK293T cells transfected with CES5A cDNA clone (Cat# [RC210205]) using MegaTran 2.0 (Cat# [TT210002]).