

Product datasheet for PH310205

Carboxylesterase 7 (CES5A) (NM_145024) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CES7 MS Standard C13 and N15-labeled recombinant protein (NP_659461)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210205
Predicted MW:	58 kDa
Protein Sequence:	>RC210205 representing NM_145024 Red=Cloning site Green=Tags(s) MSGNWWHPGQILIWAIWVLAAPTKGPSAEGPQRNTRLGWIQKQVTVLGSVPVNVFLGVFPAAPPLGSL RFTNPQPASPWDNLREATSYPNLCQNSEWLLLDQHMLKVHYPKFGVSEDCLYLNIYAPAHADTGSKLPV LVWFPGGAFKTSASIFDGSALAAAYEDLVVVVQYRLGIFGFFTTWDQHAPGNWAFKQVAALSWQKNI EFFGGDPSSVTIFGESAGAISVSSLILSPMAKGLFHKAIMESGVAIIPYLEAHDYEKSEDLQVVAHFVCGN NASDSEALLRCLRTKPSKELLTSQKTKSFTRVVDGAFPPNEPLDLLSQKAFKAIPSIIGVNNHECGFLL PMKEAPEILSGSNKSLALHLIQNILHIPPQYLHLVANEYFHDKHSLTEIRDLLDLLGDVFFVVPALITA RYHREGATEEEKLLSRKMMKYWATFARTGNPNGNDLSLWPAYNLTEQYLQLDLNMSLQRLKEPRVDFWT STIPLILSASDMLHSPLSSLTFLSLLQPFFFFCAP TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_659461
RefSeq Size:	1962
RefSeq ORF:	1575



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Synonyms: CAUXIN; CES4C1; CES5; CES7; HEL126

Locus ID: 221223

UniProt ID: [Q6NT32](#), [V9HWK3](#)

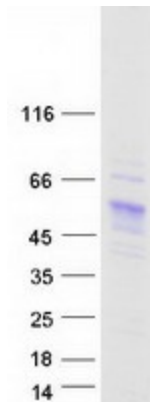
Cytogenetics: 16q12.2

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]

Protein Families: Druggable Genome

Protein Pathways: 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]).