Datasheet for ABIN7547706

FMO5 Protein (AA 1-533) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	FMO5
Protein Characteristics:	AA 1-533
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FMO5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat FMO5 Protein expressed in mammalien cells.
Sequence:	MTKKRIAVIG GGVSGLSSIK CCVEEGLEPV CFERTDDIGG LWRFQENPEE GRASIYKSVI INTSKEMMCF SDYPIPDHYP NFMHNAQVLE YFRMYAKEFD LLKYIRFKTT VCSVKKQPDF ATSGQWEVVT ESEGKKEMNV FDGVMVCTGH HTNAHLPLES FPGIEKFKGQ YFHSRDYKNP EGFTGKRVII IGIGNSGGDL AVEISQTAKQ VFLSTRRGAW ILNRVGDYGY PADVLFSSRL THFIWKICGQ SLANKYLEKK INQRFDHEMF GLKPKHRALS QHPTLNDDLP NRIISGLVKV KGNVKEFTET AAIFEDGSRE DDIDAVIFAT GYSFDFPFLE DSVKVVKNKI SLYKKVFPPN LERPTLAIIG LIQPLGAIMP ISELQGRWAT QVFKGLKTLP SQSEMMAEIS KAQEEIDKRY VESQRHTIQG DYIDTMEELA DLVGVRPNLL SLAFTDPKLA LHLLLGPCTP IHYRVQGPGK WDGARKAILT TDDRIRKPLM TRVVERSSSM TSTMTIGKFM LALAFFAIII AYF **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a**

Product Details

	special request, please contact us.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	FMO5
Alternative Name:	FMO5 (FMO5 Products)
Background:	Flavin-containing monooxygenase 5 (FMO 5) (Baeyer-Villiger monooxygenase 1) (hBVMO1) (EC 1.14.13.-) (Dimethylaniline monooxygenase [N-oxide-forming] 5) (EC 1.14.13.8) (Dimethylaniline oxidase 5) (NADPH oxidase) (EC 1.6.3.1),FUNCTION: Acts as a Baeyer-Villiger monooxygenase on a broad range of substrates. Catalyzes the insertion of an oxygen atom into a carbon-carbon bond adjacent to a carbonyl, which converts ketones to esters (PubMed:28783300, PubMed:26771671, PubMed:20947616). Active on diverse carbonyl compounds, whereas soft nucleophiles are mostly non- or poorly reactive (PubMed:26771671, PubMed:7872795). In contrast with other forms of FMO it is non- or poorly active on 'classical' substrates such as drugs, pesticides, and dietary components containing soft nucleophilic heteroatoms (Probable) (PubMed:7872795). Able to oxidize drug molecules bearing a carbonyl group on an aliphatic chain, such as nabumetone and pentoxifylline (PubMed:28783300). Also, in the absence of substrates, shows slow but yet significant NADPH oxidase activity (PubMed:26771671). Acts

Target Details

	as a positive modulator of cholesterol biosynthesis as well as glucose homeostasis, promoting metabolic aging via pleiotropic effects (By similarity). {ECO:0000250|UniProtKB:P97872, ECO:0000269|PubMed:20947616, ECO:0000269|PubMed:26771671, ECO:0000269|PubMed:28783300, ECO:0000269|PubMed:7872795, ECO:0000305|PubMed:26771671}.
Molecular Weight:	60.2 kDa
UniProt:	P49326

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months