

Product datasheet for TP525185

Ch25h (NM_009890) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse cholesterol 25-hydroxylase (Ch25h), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR225185 protein sequence Red =Cloning site Green =Tags(s)
	MGCYNGSELQDLGCSSQLLLQPLWDTIRTREAFTRSPIFPVTFSSIITYVGFCLPFVWLDVLYPWVPIARR YKIHPDFSPVKQLLPCLGLTLYQHLVFPVPTLLHWVRSPALLPQEAPELVQLLSHVLIICLLFDTEIF AWHLLHHKVPWLYRTFHKVHHQNSSSFALATQYMSFWELLSLTFDFVNLNVAVLRCHPLTIFTFHVINIWL SVEDHSGYDFPWSTHRLVPFGWYGGVAHDMHHSQFNCNFAPYFTHWDKMLGTLRSAPLPESLCACGERC VNSRERCAVHLIQKKKQT
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	34.7 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
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 after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_034020</u>
Locus ID:	12642
UniProt ID:	<u>Q9Z0F5</u>



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RefSeq Size: 1366

Cytogenetics: 19 C1

RefSeq ORF: 897

Synonyms: AI462618; m25OH

Summary: Catalyzes the formation of 25-hydroxycholesterol from cholesterol, leading to repress cholesterol biosynthetic enzymes (PubMed:9852097). Plays a key role in cell positioning and movement in lymphoid tissues: 25-hydroxycholesterol is an intermediate in biosynthesis of 7-alpha,25-dihydroxycholesterol (7-alpha,25-OHC), an oxysterol that acts as a ligand for the G protein-coupled receptor GPR183/EBI2, a chemotactic receptor for a number of lymphoid cells (PubMed:22999953). May play an important role in regulating lipid metabolism by synthesizing a corepressor that blocks sterol regulatory element binding protein (SREBP) processing (PubMed:9852097). In testis, production of 25-hydroxycholesterol by macrophages may play a role in Leydig cell differentiation (PubMed:9852097).[UniProtKB/Swiss-Prot Function]