

Recombinant Mouse Ch25h Protein, MYC/DDK-tagged

Cat. No. Ch25h-883M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse cholesterol 25-hydroxylase (Ch25h), with C-terminal MYC/DDK tag, was expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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- α ,25-dihydroxycholesterol (7- α ,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).
Molecular Mass	34.7 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
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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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ch25h cholesterol 25-hydroxylase [Mus musculus (house mouse)]
Official Symbol	Ch25h
Synonyms	Ch25h; cholesterol 25-hydroxylase; m25OH; AI462618; cholesterol 25-hydroxylase; cholesterol 25-monooxygenase; EC 1.14.99.38
Gene ID	12642
mRNA Refseq	NM_009890
Protein Refseq	NP_034020
UniProt ID	Q9Z0F5

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