Recombinant Mouse Retsat Protein, Myc/DDK-tagged

Cat. No. Retsat-5473M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length retinol saturase (all trans retinol 13,14 reductase) (Retsat), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Catalyzes the saturation of all-trans-retinol to all-trans-13,14-dihydroretinol. Does not exhibit any activity toward all-trans-retinoic acid, nor 9-cis, 11-cis or 13-cis-retinol isomers. May play a role in the metabolism of vitamin A. Independently of retinol conversion, may regulate liver metabolism upstream of MLXIPL/ChREBP. Required for adipocyte differentiation in a 3T3-L1 cell culture model. This effect seems not to mimic the in vivo situation in which animals show increased adiposity in the absence of RETSAT.
Molecular Mass	67.8 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.
Storage	Store at -80 centigrade after receiving vials.

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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	Retsat retinol saturase (all trans retinol 13,14 reductase) [Mus musculus (house mouse)]
Official Symbol	Retsat
Synonyms	RETSAT; retinol saturase (all trans retinol 13,14 reductase); all-trans-retinol 13,14-reductase; all-trans-13,14-dihydroretinol saturase; PPAR-alpha-regulated and starvation-induced gene protein; MMT-7; Ppsig; C80029; 0610039N19Rik; MGC143538
Gene ID	67442
mRNA Refseq	NM_026159
Protein Refseq	NP_080435
UniProt ID	Q64FW2

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