

Product datasheet for TP524429

Retsat (NM_026159) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Purified recombinant protein of Mouse retinol saturase (all trans retinol 13,14 reductase) (Retsat), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

Species: Mouse

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >MR224429 representing NM_026159
 Red=Cloning site Green=Tags(s)

MWITALLLAVLLLILHRVYVGLYAASSPNPFAEDVKRPPEPLVTDKEARKKVLKQAFSVSRVPEKLDV
 VIGSGIGGLASAAVLAKAGKRVLVLEQHTKAGGCCHTFGENGLEFDTGIHYIGRMREGNIGRFILDQITE
 GQLDWAPMASPFDLMILEGPNRKEFPMYSGRKEYIQGLKKKFPKEEAVIDKYMELVKVARGVSHAVLL
 KFLPLPLTQLLSKFGLLTRFSPFCRASTQSLAEVLQQLGASRELQAVLSYIFPTYGVTPSHTAFSLHALL
 VDHYIQGAYYPRGGSSEIAFHITIPIQRAGGAVLTRATVQSVLLDSAGRACGVSVKKGQELVNIYCPVVI
 SNAGMFNTYQHLLPETVRHLPDVKKQLAMVRPGLSMLSIFICLKGTKEDLKLQSTNYYVYFDTDMDKAME
 RYVSMPEKAPHEIPLLFIAPSSKDPTWEERFPDRSTMTALVPMFAFEWFEEWQEEPKGKRGVDYETLKN
 AFVEASMSVIMKLPQLEGKVESVTGGSPLTNQYYLAAPRGATYGADHDLARLPHAMASIRAQTPINL
 YLTGQDIFTCGLMGALQGALLCSSAILKRNLYSIDLQALGSKVKAQKKKM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 67.8 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.



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RefSeq: [NP_080435](#)

Locus ID: 67442

UniProt ID: [Q64FW2](#)

RefSeq Size: 1942

Cytogenetics: 6 C1

RefSeq ORF: 1827

Synonyms: 0610039N19Rik; C80029; MMT-7; Ppsig

Summary: Catalyzes the saturation of all-trans-retinol to all-trans-13,14-dihydroretinol (PubMed:15358783, PubMed:17253779, PubMed:19139408). Does not exhibit any activity toward all-trans-retinoic acid, nor 9-cis, 11-cis or 13-cis-retinol isomers (PubMed:15358783). May play a role in the metabolism of vitamin A (PubMed:15358783, PubMed:17253779). Independently of retinol conversion, may regulate liver metabolism upstream of MLXIPL/ChREBP (PubMed:28855500). Required for adipocyte differentiation in a 3T3-L1 cell culture model (PubMed:19139408). This effect seems not to mimic the in vivo situation in which animals show increased adiposity in the absence of RETSAT (PubMed:19940255). [UniProtKB/Swiss-Prot Function]