# ACOT13 Protein, Human (HEK293, His)

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| **Cat. No.:** | HY-P7452 |
| **Synonyms:** | rHuAcyl-coenzyme A thioesterase 13, His; ACOT-13; Acyl-coenzyme A thioesterase 13 |
| **Species:** | Human |
| **Source:** | HEK293 |
| **Accession:** | Q9NPJ3 (T2-N140) |
| **Gene ID:** | 55856 |
| **Molecular Weight:** | Approximately 15.9 kDa |

## PROPERTIES

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| **AA Sequence** | T S M T Q S L R E V I K A M T K A R N F E R V L G K I T L V S A A P G K V I C E<br>M K V E E E H T N A I G T L H G G L T A T L V D N I S T M A L L C T E R G A P G<br>V S V D M N I T Y M S P A K L G E D I V I T A H V L K Q G K T L A F T S V D L T<br>N K A T G K L I A Q G R H T K H L G N H H H H H H |
| **Biological Activity** | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet. |
| **Appearance** | Lyophilized powder |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 8% Sucrose, 100 mM NaCl, 0.05% Tween 80, pH7.0. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| **Storage & Stability** | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| **Shipping** | Room temperature in continental US; may vary elsewhere. |

## DESCRIPTION

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| **Background** | Acyl-coenzyme A thioesterase 13 (ACOT13), also known as thioesterase superfamily member 2 (Them2), belongs to the mammalian acyl-CoA thioesterase family. ACOT13 is a homotetrameric hotdog fold thioesterase, and is enriched in oxidative tissues, associated with mitochondria, and relatively specific for long chain fatty acyl-CoA substrates. ACOT13 plays a key role in hepatic lipid and glucose metabolism. ACOT13 is essential for the cell sustained proliferation and is co-localized with microtubules[1][2]. |

## REFERENCES

[1]. Wei J, et al. Thioesterase superfamily member 2 (Them2)/acyl-CoA thioesterase 13 (Acot13): a homotetrameric hotdog fold thioesterase with selectivity for long-chain fatty acyl-CoAs. Biochem J. 2009 Jun 26;421(2):311-22.

[2]. Cheng Z, et al. Human thioesterase superfamily member 2 (hTHEM2) is co-localized with beta-tubulin onto the microtubule. Biochem Biophys Res Commun. 2006 Dec 1;350(4):850-3.



Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA