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**Product Data Sheet**


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Product Name: ADFP Human

Cat. No.: GP22678

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Adipophilin; Adipose differentiation-related protein; ADRP; ADFP; MGC10598.		
Amino Acid Sequence	MKHHHHHHAS VAVDPQPSVV TRVVNLPLVS STYDLMSSAY LSTKDQYPYL KSVCEMAENG VKTITSVAMT SALPIIQKLE PQIAVANTYA CKGLDRIEER LPILNQPSTQ IVANAKGAVT GAKDAVTTTV TGAKDSVAST ITGVMDKTKG AVTGSVEKTK SVVSGSINTV LGSRRMMQLVS SGVENALTKS ELLVEQYLPL TEEELEKEAK KVEGFDLVQK PSYYVRLGSL STKLHSRAYQ QALSRVKEAK QKSQQTISQL HSTVHLIEFA RKNVYSANQK IQDAQDKLYL SWVEWKRSIG YDDTDESHCA EHIESRTLAI ARNLTQQLQT TCHTLLSNIQ GVPQNIQDQA KHMGMAGDI YSVFRNAASF KEVSDSLLTS SKGQLQKMKE SLDDVMDYLV NNTPLNWLVG PFYPQLTESQ NAQDQGAEMD KSSQETQRSEHKTH.		
Solubility	Add deionized water to prepare a working stock solution of approximately 0.5mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	Human ADFP was lyophilized from 0.5mg/ml solution containing 20mM Tris pH-7.5, and 20mM NaCl.		

**Introduction**

ADFP is related with the globule surface membrane material. ADFP is a major constituent of the globule surface. Rise in mRNA levels is one of the initial indications of adipocyte differentiation. Mycobacterium leprae regulates ADFP expression to facilitate the accumulation of lipids within infected macrophages for intracellular survival. ADFP is expressed in lipid droplets of vitamin A-storing hepatic stellate cells and additionally in lipid droplets of steatotic hepatocytes. ADFP expression has a role in clear cell renal

**Caution: Product has not been fully validated for medical applications. For research use only.**

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carcinoma differentiation. ADFP is a component of the lipid droplets in THP-1 cells.

### Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

### Background

ADFP Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 444 amino acids and having a molecular mass of 49 kDa. The protein contains an extra 8 amino acid His tag at N-terminus. The ADFP amino acid sequence is identical to UniProtKB/Swiss-Prot entry Q99541 amino acids 4-437. The ADFP is purified by proprietary chromatographic techniques.

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