



Product Datasheet

Product Name	Adipose Differentiation-Related Protein Human Recombinant
Cata No	CB501026
Source	<i>Escherichia Coli.</i>
Synonyms	Adipophilin, Adipose differentiation-related protein, ADRP, ADFP, MGC10598.

Description

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

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.

Purity

Greater than 95% as determined by SDS PAGE.

Formulation

Human ADFP was lyophilized from 0.5mg/ml solution containing 20mM Tris pH-7.5, and 20mM NaCl,

Reconstitution

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.

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. The lyophilized protein remains stable until the expiry date when stored at -20°C.

Sequence

MKHHHHHHAS VAVDPQPSVV TRVNLPLVS
STYDLMSSAY LSTKDQYPYL KSVCEMAENG
VKTITSVAMT SALPIIQKLE PQIAVANTYA
CKGLDRIEER LPILNQPSTQ IVANAKGAVT
GAKDAVTTTV TGAKDSVAST ITGVMDKTKG
AVTGSVEKTK SVVSGSINTV LGSRRMMQLVS
SGVENALTKS ELLVEQYLPL TEELEKEAK
KVEGFDLVQK PSYYVRLGSL STKLHSRAYQ
QALSRVKEAK QKSQQTISQL HSTVHLIEFA
RKNVYSANQK IQDAQDKLYL SWVEWKRSIG
YDDTDESHCA EHIESRTLAI ARNLTQQLQT
TCHTLLSNIQ GVPQNIQDQA KHMGVMAGDI
YSVFRNAASF KEVSDSLLTS SKGQLQKMKE
SLDDVMDYLV NNTPLNWLVG PFYPQLTESQ
NAQDQGAEMD KSSQETQRSEHKTH

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