
Product Data Sheet

Product Name: ANXA2 Human
 Cat. No.: GP22731
 Batch No.: 1

Product Data

Purity	>98%	Source	Human Adipose Tissue.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	ANX2; ANX2L4; CAL1H; LIP2; LPC2; LPC2D; P36; PAP-IV; ANXA2; Annexin A2; Annexin-2; Annexin II; Lipocortin II; Calpactin-1 heavy chain; Calpactin I heavy chain; Chromobindin-8; p36; Protein I; Placental anticoagulant protein IV.		
Amino Acid Sequence	STVHEILCKL SLEGDHSTPP SAYGSVKAYT NFDAERDALN IETAIKTKGV DEVTIVNILT NRSNAQRQDI AFAYQRRTKK ELASALKSAL SGHLETVILG LLKTPAQYDA SELKASMKGL GTDEDSLIEI ICSRTNQELQ EINRVYKEMY KTDLEKDIIS DTSGDFRKLK VALAKGRRAE DGSVIDYELI DQDARDLYDA GVKRKGTDVP KWISIMTERS VPHLQKVFDR YKSYSPYDML ESIRKEVKGD LENAFLNLVQ CIQNKPLYFA DRLYDSMKGK GTRDKVLIRI MVSRSVDML KIRSEFKRKY GKSLYYYIQQ DTKGDYQKAL LYLCGGDD.		
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/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	ANXA2 protein filtered (0.4µm) and lyophilized in 0.5mg/ml in 0.05M phosphate buffer, 0.075M NaCl and pH 6.5.		

Introduction

ANXA2 is part of the annexin family and is involved in the regulation of cellular growth and in signal transduction pathways. ANXA2 protein functions as an autocrine factor which increases osteoclast formation and bone resorption. ANXA2 is associated with sickle cell osteonecrosis. Reduced ANXA2 expression is associated with osteosarcoma metastases. ANXA2 is part of the putative cell surface vitamin D binding protein binding site complex and functions to mediate the chemotactic cofactor effect. ANXA2 is

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involved in dysferlin deficiency and in muscular dystrophies. Human colon adenocarcinoma cell differentiation is related with an up-regulation of ANXA2.

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

The Human Annexin A2 produced from Human Adipose Tissue has a molecular mass of 38.472kDa (calculated without glycosylation) containing 338 amino acid residues.

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