
Product Data Sheet

Product Name: ANXA1 Human
 Cat. No.: GP22726
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ANX1; LPC1; ANXA1; Lipocortin I; Calpactin II; Chrombindin-9; p35; Annexin-1; Phospholipase A2 inhibitory protein; Annexin I; Annexin A1.		
Amino Acid Sequence	MAMVSEFLKQ AWFIEENEEQE YVQTVKSSKG GPGSAVSPYP TFNPSSDVAA LHKAIMVKGV DEATIIDILT KRNNAQRQQI KAAYLQETGKPLDETLKKAL TGHLEEVVLA LLKTPAQFDA DELRAAMKGL GTDEDTLIEI LASRTNKEIR DINRVYREEL KRDLAKDITS DTSGDFRNAL LSLAKGDRSE DFGVNEDLAD SDARALYEAG ERRKGTDVNV FNTILTTRSY PQLRRVFQKY TKYSKHDMMNK VLDLELKGDI EKCLTAIVKCATSKPAFFAE KLHQAMKGVG TRHKALIRIM VSRSEIDMND IKAFYQKMYG ISLCQAILDE TKGDYKILV ALCGGN.		
Formulation	The ANXA1 protein solution contains 20mM Tris-HCl, pH-8, 100mM NaCl, 1mM DTT and 10% glycerol.		

Introduction

ANXA1 is part of the family of Ca(2+)-dependent phospholipid binding proteins which have a Mw between 35kDa-40kDa and are situated on the cytosolic face of the plasma membrane. ANXA1 protein has a Mw of 40kDa, with phospholipase A2 inhibitory activity to bind from two to four calcium ions with high affinity. Since phospholipase A2 is necessary for the biosynthesis of the potent mediators of inflammation, prostaglandins and leukotrienes, ANXA1 might have potential anti-inflammatory activity. ANXA1 promotes membrane fusion and plays a role in exocytosis. The recognition of ANXA1 protein by immunocytochemical leads a simple, highly sensitive and specific assay for diagnosis of hairy cell leukemia.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ANXA1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 346 amino acids (1-346 a.a.) and having a molecular mass of 38.7 kDa. ANXA1 is purified by proprietary chromatographic techniques.

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