



Catalog Number: PR27207

Product Type: Recombinant Protein

Source: *E. Coli*

Amino Acid Sequence: MAMVSEFLKQ AWFIEEEQE YVQTVKSSKG GPGSAVSPYP TFPSSDVAALHKAIMVKGV
DEATIIDILT KRNNARQQI KAAYLQETGK PLDETLKKAL TGHLEEVVLA LLKTPAQFDA
DELRAAMKGL GTDEDTLIEI LASRTNKEIR DINRVYREEL KRDLAKDITS DTSGDFRNAL
LSLAKGDRSE DFGVNEDLAD SDARALYEAG ERRKGTDVNV FNTILTTRSY PQLRRVFQKY
TKYSKHDMNK VLDLELKGDI EKCLTAIVKCATSKPAFFAE KLHQAMKGVG TRHKALIRIM
VSRSEIDMND IKAFYQKMYG ISLCQAILDE TKG DY EKILV ALCGGN.

Description/Molecular Mass: 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.

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.

Purity: ANXA1 is purified by proprietary chromatographic techniques.
Greater than 90.0% as determined by:
(a) Analysis by SDS-PAGE.

Format: The ANXA1 protein solution contains 20mM Tris-HCl, pH-8, 100mM NaCl, 1mM DTT and 10% glycerol.

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

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www.neuromics.com

Neuromics • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail pshuster@neuromics.com