# Annexin A1 Human E. coli

## Product Data Sheet

**Type:** Recombinant
**Source:** E. coli
**Species:** Human
**Other names:** Annexin I, Annexin-1, Calpactin II, Calpactin-2, Chromobindin-9, Lipocortin I, Phospholipase A2 inhibitory protein, p35, ANXA1, ANX1, LPC1

**Cat. No.:**
RD172371100 (0.1 mg)

## Description

Total 355 AA. MW: 39.8 kDa (calculated). UniProtKB acc.no. P04083 (Ala2-Asn346). N-terminal His-tag (10 extra AA). Protein identity confirmed by LC-MS/MS.

## Introduction to the Molecule

Annexin A1 binds phospholipids and up to four calcium ions. It supports membrane fusion and takes part in exocytosis. It controles phospholipase A2 activity.

## Amino Acid Sequence

```
MKHHHHHHAS AMVSEFLKQA WFIENEEQEY VQTVKSSKGG PGSAVSPYPT FNPSSDVAAL HKAIMVKGVD EATIIDILTK
RNNAQRQQIK AAYLQETGKP LDETLKKALT GHLEEVVLAL LKTPAQFDAD ELRAAMKGLG TDEDTLIEIL ASRTNKEIRD
INRVYREELK RDLAKDITSD TSGDFRNALL SLAKGDRSED FGVNEDLADS DARALYEAGE RRKGTDVNVF NTILTTRSYP
QLRRVFQKYT KYSKHDMNKV LDLELKGDIE KCLTAIVKCA TSKPAFFAEK LHQAMKGVGT RHKALIRIMV SRSEIDMNDI
KAFYQKMYGI SLCQAILDET KGDYEKILVA LCGGN
```

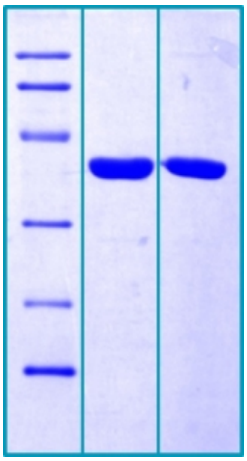
## Source

E. coli

## Purity

Purity as determined by densitometric image analysis: > 95%

## SDS-PAGE gel



14 % SDS-PAGE separation of Human Annexin A1:

1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa

2. reduced and boiled sample, 2.5 µg/lane

3. non-reduced and non-boiled sample, 2.5 µg/lane

## Endotoxin

< 1.0 EU/ug

## Formulation

Filtered (0.4 µm) and lyophilized from 0.5 mg/mL solution in 20 mM Tris buffer, 50 mM NaCl, pH 8.

## Reconstitution

Add 200 µl of 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 cell culture.

## Shipping

At temperature 2 - 8°C. Upon receipt, store the product at the temperature recommended below.

## Storage, Stability/Shelf Life

Store the lyophilized protein at -80 °C. Lyophilized protein remains stable until the expiry date when stored at -80 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80 °C for long term storage. Reconstituted protein can be stored at 4 °C for a week.

## Quality Control Test

BCA to determine quantity of the protein.
SDS-PAGE to determine purity of the protein.
LAL TEST to determine endotoxin level.

## Applications

ELISA, Western blotting

## Note

This product is intended for research use only.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