## PRODUCT INFORMATION

## Expression system

E.coli

## Domain

1-323aa
UniProt No.
P12429

## NCBI Accession No.

NP_005130

## Alternative Names

Annexin-3, Lipocortin III, Placental anticoagulant protein III, 35-alpha calcimedin, ANXA3, ANX3, Annexin A3, Annexin III, PAP III, Inositol 12 cyclic phosphate 2 phosphohydrolase

## PRODUCT SPECIFICATION

## Molecular Weight

36.3 kDa (323aa) confirmed by MALDI-TOF

## Concentration

$1 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

Liquid in. 20 mM Tris- HCl buffer ( pH 7.5 ) containing 1mM DTT, $10 \%$ glycerol

## Purity

> 90\% by SDS-PAGE

## Tag

Non-Tagged

## Application

SDS-PAGE

## Storage Condition

Can be stored at +2 C to +8 C for 1 week. For long term storage, aliquot and store at -20 C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

## Description

Annexin A3, also known as ANXA3, belong to the calcium dependent phospholipid binding protein family which play a role in the regulation of cellular growth and in signal transduction pathways. This protein functions in the inhibition of phospholipase A2 and cleavage of inositol 1, 2 cyclic phosphates to form inositol 1 phosphate. It has been reported for the signaling cascade in rat liver regeneration. Recombinant human ANXA3 was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MASIWVGHRG TVRDYPDFSP SVDAEAIQKA IRGIGTDEKM LISILTERSN AQRQLIVKEY QAAYGKELKD DLKGDLSGHF EHLMVALVTP PAVFDAKQLK KSMKGAGTNE DALIEILTTR TSRQMKDISQ AYYTVYKKSL GDDISSETSG DFRKALLTLA DGRRDESLKV DEHLAKQDAQ ILYKAGENRW GTDEDKFTEI LCLRSFPQLK LTFDEYRNIS QKDIVDSIKG ELSGHFEDLL LAIVNCVRNT PAFLAERLHR ALKGIGTDEF TLNRIMVSRS EIDLLDIRTE FKKHYGYSLY SAIKSDTSGD YEITLLKICG GDD

## General References

Harashima M., et al. (2008) J Biochem. 143(4):537-45.
Tait J., et al. (1991) Genomics. 10(2):441-8.

DATA

SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by
 coomassie blue stain.

