

DESCRIPTION

Source *E. coli*-derived
Gly2-His316 (Arg86His), with a C-terminal 6-His tag
Accession # P27216-1

N-terminal Sequence Analysis Gly2

Predicted Molecular Mass 36 kDa

SPECIFICATIONS

SDS-PAGE 35 kDa, reducing conditions

Activity Bioassay data are not available.

Endotoxin Level <0.10 EU per 1 µg of the protein by the LAL method.

Purity >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Formulation Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 250 µg/mL in PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

DATA

Bioactivity not tested



The Innovator Series.
R&D Systems proteins are almost always sold with a bioassay to indicate activity. However, we recognize that sometimes proteins might be novel, and their bioactivity may not be well understood. In addition, some researchers may wish to use polypeptides to make antibodies. To facilitate the advancement of new science, we now offer our Innovator Series of proteins.

BACKGROUND

Human Annexin A13 (ANXA13), also known as Annexin XIII or Annexin 13, is a 35 kDa member of the Annexin family (1), which are calcium-dependent phospholipid-binding proteins being preferentially located on the cytosolic face of the plasma membrane. The Annexins consist of a unique N-terminal domain followed by a homologous C-terminal core domain containing the phospholipid-binding sites. The C-terminal domain of Annexin A13 is comprised of four 60-70 aa annexin repeats which form a tightly packed disc known as the Annexin domain. Alternate splicing generates an additional isoform with a 41 amino acid (aa) deletion near the N-terminus (2). Members of the Annexin family play a role in cytoskeletal interactions, phospholipase inhibition, regulation of cellular growth, and intracellular signal transduction pathways (3, 4). Human Annexin A13 shares approximately 86% and 91% aa sequence identity with mouse and dog Annexin A13 respectively.

References:

1. Wice, B. *et al.* (1992) J Cell Biol. **116**:405.
2. Turnay, J. *et al.* (2005) Biochem. J. **389**:899.
3. Gerke, V. *et al.* (2002) Physiol. Rev. **82**:331.
4. Gerke, V. *et al.* (2005) Nat. Rev. Mol. Cell Biol. **6**:449.