

human Annexin V

Recombinant protein

For research use only; not for therapeutic or *in vitro* diagnostic use

Cat. No.	Label	Quantity*
BMS306/30UG	Unlabeled	30 µg
BMS306/300UG	Unlabeled	300 µg
BMS306/1MG	Unlabeled	1 mg*

*Bulk quantities are available on request.

Source:	E. coli
Molecular Weight:	35.8 kDa
Presentation:	Lyophilized
Purity:	Annexin V is >89% pure as demonstrated by SDS-gel electrophoresis and reverse phase HPLC.
Reconstitution:	We recommend a quick spin followed by reconstitution in 1 ml distilled water (incubate at 30°C for 5 minutes). Reconstituted solution contains 20 mM phosphate buffer (pH 7.0), 0.02% Tween 80, 130 mM Arginine HCL.
Biological Activity:	Annexin V exhibits anti-phospholipase activity and binds to phosphatidylserine (PS).
Storage and Stability:	The lyophilized protein is stable at 2-8°C as indicated on the label. Reconstituted Annexin V should be stored in working aliquots at -20°C.
Description:	<p>Annexin V is a phospholipid binding protein, which binds with high affinity and selectivity to PS in the presence of calcium. PS is predominantly located in membrane leaflets, which face the cytosol. However, recent findings show that each cell type has the molecular machinery to expose PS at its cell surface. This machinery is activated during the execution of apoptosis. Once PS is exposed at the cell surface it exhibits procoagulant and proinflammatory activities. Annexin V will bind to the PS-exposing apoptotic cell and can inhibit the procoagulant and proinflammatory activities of the dying cell.</p> <p>Annexin V has also been identified as an anticoagulant protein in the blood coagulation cascade, by acting as an inhibitor of prothrombin activation. The presence of antibodies to Annexin V is associated with systemic lupus erythematosus (SLE), recurrent spontaneous abortions and systemic sclerosis (SSc).</p> <p>For literature update refer to www.eBioscience.com</p>

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