

Annexin V (Lyophilized)

Cat #: BGT-CHM-729

Size: 0.1mg/1mg/5mg

Product Description

Biogradetech's Recombinant Annexin V is a non glycosylated polypeptide chain purified from *Escherichia coli*.

Annexin V is a Ca^{2+} dependent phospholipid binding protein with a very high affinity for phosphatidylserine (PS). In living cells, PS is mainly located on the inner lobules of the plasma membrane. In the early stage of cell apoptosis, PS flips from the inner lobule to the outer lobule. At this point, fluorescently labeled Annexin V can bind to PS located in the outer lobule, making it commonly used for cell apoptosis detection. In addition, Annexin V is also a vascular anticoagulant protein that participates in the coagulation cascade by indirectly inhibiting thromboplastin specific complexes.

Properties

Amino Acid Sequence:

SHMAQVLRGTVTDFPGFDERADAETLRKAMKGLGTDEESILTLLTSRSNAQRQEISAAFKTLFGRDLLDDLKSELTGKFE
KLIVALMKPSRLYDAYELKHALKGAGTNEKVLTEIIASRTPEELRAIKQVYEEYEGSSLEDDVVGDTSGYYQRMLVLLQA
NRDPDAGIDEAQVEQDAQALFQAGELKWGTDEEKFITIFGTRSVSHLRKVFDDKYMTISGFQIEETIDRETSGNLEQLLLA
VVKIRSIPAYLAETLYYAMKGAGTDDHTLIRVMVSRSEIDLFNIRKEFRKNFATSLYSMIKGDTSRGDYKKALLLLCGEDD

MW: 36.161 kDa

Purity: >98%

Endotoxin: <1EU/ μg

Formulation: 25 mM HEPES, pH7.4, 140 mM NaCl, 1 mM EDTA (Filtered through a 0.22 μm membrane)

Appearance: Lyophilized powder

Storage

Valid for at least six months when stored at 20°C. Gently mix and dissolve Annexin V freeze-dried powder with sterile deionized water at room temperature. The reconstituted sample can be stored stably for one week at 4°C or for three months at -20°C. If the storage time needs to be extended, BSA

with a final concentration of 1mg/mL or NaN₃ with a final concentration of 0.1% can be added and stored stably at 4°C for at least six months.

Note:

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.