

ANXA2 Protein, Human, Recombinant

General Information

Synonyms:	ANXA2; Calpactin I Heavy Chain; ANX2; p36; LPC2D; PAP-IV; ANX2L4; Calpactin-1 Heavy Chain; Lipocortin II; Placental Anticoagulant Protein IV; Protein I; Annexin II; Annexin-2; CAL1H; Annexin A2; Chromobindin-8
Protein Construction:	Ser2-Asp339
Species:	Human
Expression Host:	E. coli
Accession:	P07355
Molecular Weight:	35 KDa (reducing condition)
AA Sequence:	Ser2-Asp339

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Histidine-HCl, 6% Sucrose, 4% Mannitol, 0.05% Tween 80, pH 5.5.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Annexin A2 (ANXA2) is a member of the annexin family and has roles in the regulation of cellular growth and in signal transduction pathways. ANXA2 protein is associated with sickle cell osteonecrosis and the expression reduce of ANXA2 is associated with osteosarcoma metastases. ANXA2 functions as an autocrine factor, it can

increases osteoclast formation and bone resorption. ANXA2 is involved in muscular dystrophies. In humans, the up-regulation of ANXA2 is related with colon adenocarcinoma cell differentiation.

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