

Annexin VI/ANXA6 Protein, Human, Recombinant (His)

General Information

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| Synonyms: | ANX6;annexin A6;CBP68 |
| Protein Construction: | A DNA sequence encoding the human ANXA6 / Annexin A6 / Annexin6 (P08133) (Met 1-Asp 673) was fused with a polyhistidine tag at the C-terminus. Predicted N terminal: Met 1 |
| Species: | Human |
| Expression Host: | E. coli |
| Accession: | P08133 |
| Molecular Weight: | 77.2 kDa (predicted); 60 kDa (reducing conditions) |

QC Testing

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| Biological Activity: | Testing in progress |
| Purity: | > 97% as determined by SDS-PAGE |
| Endotoxin: | Please contact us for more information. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.5. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization. |

Preparation and Storage

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| Reconstitution: | Reconstituted with sterile deionized water. |
| Stability & Storage: | It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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. <small>Actual storage temperature shall be subject to the COA.</small> |
| Shipping: | In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice. |

Protein Background

Annexin A6, also known as ANXA6 or ANXAVI, belongs to a family of Ca²⁺-dependent membrane and phospholipid binding proteins. Members of this family have been implicated in membrane-related events along exocytotic and endocytotic pathways. Annexin 6 is phosphorylated in vivo associated with cell growth. Annexin 6 was not phosphorylated in quiescent cells, but was phosphorylated on serine and to a lesser extent threonine, several hours following cell stimulation. Experiment has revealed the presence of annexin A6 on the cell surface of variety cells as putative receptors and / or binding proteins for chondroitin sulfate proteoglycans, helping cells to

bind with this extracellular matrix glycosaminoglycan chondroitin sulfate which is related to the cell-substratum adhesion. A post-translational modification other than direct protein phosphorylation may influence the activity of annexin6 and provide evidence linking cell growth with regulation of annexin 6 function.

Reference

Takagi H, et al. (2002) Annexin 6 is a putative cell surface receptor for chondroitin sulfate chains. J Cell Sci. 115 (16): 3309-18.

Moss SE, et al. (1992) A growth-dependent post-translational modification of annexin VI. Biochim Biophys Acta. 1160 (1): 120-6.

Song G, et al. (1998) Altered cardiac annexin mRNA and protein levels in the left ventricle of patients with end-stage heart failure. J Mol Cell Cardio. 30 (3): 443-51.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481