BIOCHEMICAL ANALYSIS OF α-BjussuMIP, A PHOSPHOLIPASE A_2 INHIBITOR PROTEIN FROM *Bothrops jararacussu* SNAKE PLASMA

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α-BjussuMIP was isolated from *Bothrops jararacussu* snake plasma by affinity chromatography using immobilized bothropstoxin-I (Lys49-BthTX-I) on Sepharose gel. The analysis of this inhibitor by size exclusion chromatography on Sephacryl S-200 revealed an apparent M_r around 120,000. Biochemical characterization of this myotoxin α-inhibitor protein showed it to be an oligomeric glycoprotein with a M_r ~24,500 for the monomeric subunit. For the determination of the N-terminal residue and detention of carbohydrate for the analysis of the amino acid composition, about 6nmoles of the inhibitor were hydrolyzed with HCl and processed as previously described by Spackman et al. (1958). The N-terminal residue was determined by the method of dansyl chloride described by Gray (1972). The Schiff test was used to determine the presence of carbohydrate and the Dubois method to quantify neutral carbohydrate in the isolated inhibitor. The enzymatic deglycosylation of a-BjussuMIP was carried out with 2 µg of the inhibitor incubated with 10mU of recombinant N-glycosidase F with phosphate 0.1M I contend 0.05M of EDTA, for 18h, 37°C, in pH 7,0, in a total reaction volume of 20µl. This work showed the analisys biochemical of a-BjussuMIP from *Bothrops jararacussu.*

KEY WORDS: *Bothrops jararacussu*, Inhibition, Phospholipase A_2, BjussuMIP and snake plasma.
FINANCIAL SUPPORT: FAPESP, CNPq.