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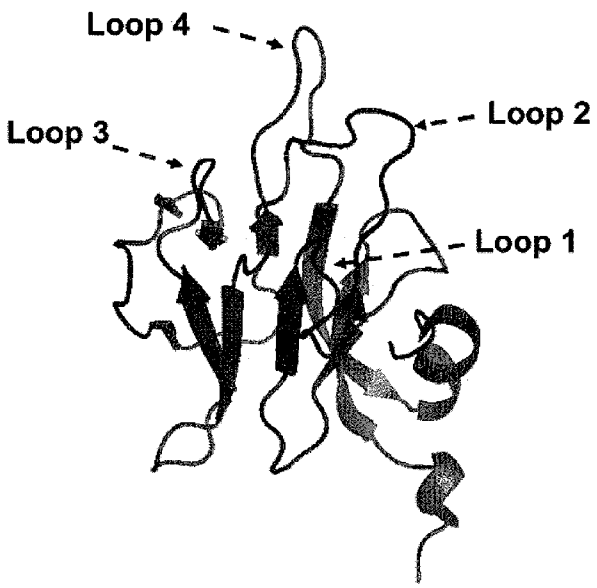
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[Continued on next page]

(54) Title: RNF8-FHA DOMAIN-MODIFIED PROTEIN AND METHOD OF PRODUCING THE SAME

Fig. 1



(57) Abstract: Provided is an antigen-binding protein prepared merely by a method of in vitro selection using the RNF8-FHA domain, which has no intramolecular disulfide bond and functions in cells as it is. One to four loops extending from the FHA domain are randomized, and a recognition site for a target molecule is artificially created on the FHA domain surface to construct an RNF8-FHA domain library. Using the library, an antigen-binding protein is efficiently selected in vitro.

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