

Baby hamster kidney cells (Clone 12) における aloelectin の DNA 合成促進作用

八木 晟*, 町井 健**, 信太 隆夫***,
西村 浩, 西岡 五夫****

Experientia 41, 669-671 (1985)

Effect of aloe lectin on deoxyribonucleic acid synthesis in baby hamster kidney cells

Akira YAGI, Kenji MACHII, Takao SHIDA, Itsuo NISHIOKA

ABSTRACT A homogeneous glycoprotein (mol. wt 40,000) containing 34% carbohydrate was isolated from *Aloe arborescens* var. *natalensis*. At a concentration of 5 $\mu\text{g/ml}$, this glycoprotein was shown to stimulate deoxyribonucleic acid (DNA) synthesis in baby hamster kidney (BHK) cells and to have the properties of a lectin which reacts with sheep blood cells. The chemical and physical properties of the glycoprotein (aloe lectin) are also discussed.

抄録 キダチアロエより34%の炭水化物を含む糖蛋白 (aloe lectin) (分子量 40,000) を単離した。Aloelectin は 5 $\mu\text{g/ml}$ の濃度で baby hamster kidney cells (clone 12) における DNA 合成を促進し、且つ羊赤血球凝集反応を示した。

* Faculty of Pharmacy and Pharmaceutical Sciences Fukuyama University

福山大学薬学部

** Oyodo Research Lab., Maruho Co Ltd. マルホ(株)・大淀研究所

*** Clinical Research Center for Rheumatology, National Sagami Hospital

国立相模原病院リウマチアレルギー研究部

**** Faculty of Pharmaceutical Sciences, Kyushu University 九州大学薬学部