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[12] **STANDARD PATENT APPLICATION**
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[30] Priority 優先權 19.03.93 GB 9305735.4	[71] Applicant 申請人 THE SPEYWOOD LABORATORY LTD., St. Georges Hospital Medical School, Cranmer Terrace, London, SW17 0QS, United Kingdom 聯合王國 MICROBIOLOGICAL RESEARCH AUTHORITY, Center For Applied Microbiology, And Research, Porton Down, Salisbury, Wiltshire, SP4, 0JG, United Kingdom 聯合王國
[43] Date of publication of application 申請發表日期 29.05.98 EP Application No. & Date 歐洲專利申請編號及日期 EP 94909262.1 18.03.94 EP Publication No. & Date 歐洲專利申請發表編號及日期 EP 0689459 03.01.96	[72] Inventor 發明人 NORTH, JOHN ROBERT FOSTER, KEITH ALAN QUINN, CONRAD PADRAIG SHONE, CLIFFORD CHARLES
[86] International Application No. 國際申請編號 PCT/GB94/00558 [87] International Publication No. 國際申請發表編號 WO 94/21300 (29.09.94)	[74] Agent and / or address for service 代理人及/或送達地址 Wilkinson & Grist, 6/FI., Prince's Building, 10 Chater Road, Hong Kong 高露雲律師行，香港中環遮打道 10 號太子大廈 6 字樓

[54] NOVEL AGENT FOR CONTROLLING CELL ACTIVITY 控制細胞活性的新試劑

[57] This invention describes a novel agent for the targeted control of a mammalian cell activity, in particular the agent is used to control the interaction of particular cell types with their external environment. The agent has applications as a pharmaceutical for the treatment of a variety of disorders. An agent according to the invention comprises three Domains B, T and E linked together in the following manner. Domain B-Domain T-Domain E where Domain B is the Binding Domain which binds the agent to a Binding Site on the cell which undergoes endocytosis to produce an endosome, Domain T is the Translocation Domain which translocates the agent (with or without the Binding Site) from within the endosome across the endosomal membrane into the cytosol of the cell, Domain E is the Effector Domain which inhibits the ability of the Recyclable Membrane Vesicles to transport the Integral Membrane Proteins to the surface of the cell.

本發明描述一種靶向控制哺乳動物細胞活性的新試劑，尤其是該試劑用于控制特定細胞与其外界環境的相互作用。該試劑可用作治療各種疾病的藥物。本發明試劑含有按下列方式連在一起的 B、T 和 E 三個區：區 B-區 T-區 E，其中區 B 為結合區，它与進行攝粒作用產生核內體的細胞的結合部位相結合，T 區為易位區，它將試劑(有或无結合点)从核內體跨越核內體膜易位到細胞的胞液中，E 區為效應器區，它抑制 RMVs 轉運 IMPs 到細胞表面的能力。

This print reflects an alteration of applicant's name under section 45 of the Patents (General) Rules.

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