CYCLIC DI-NUCLEOTIDE INDUCTION OF TYPE I INTERFERON

Tech ID: 23254 / UC Case 2013-136-0

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	11,873,319	01/16/2024	2013-136

BRIEF DESCRIPTION

Interferons have potential in the treatment of a large number of human cancers since these molecules can directly inhibit the proliferation of human tumor cells. The anti-proliferative activity is also synergistic with a variety of approved chemotherapeutic agents such as cisplatin, 5FU and paclitaxel. Secondly, the immunomodulatory activity of interferon proteins can lead to the induction of an anti-tumor immune response. In addition, interferons play a role in cross-presentation of antigens in the immune system.

UC Berkeley researchers have created methods and compositions that can be used for increasing the production of a type I interferon (IFN) in a cell by increasing the level of a 2′-5′ phosphodiester linkage comprising cyclic-di-nucleotide in a cell in a manner sufficient to increase production of the type I interferon (IFN) by the cell.

SUGGESTED USES

» cancer therapeutic

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

▶ BALB STING Knockout Mice
▶ Gasdermin-D Deficient Mice
▶ NLRC4 Knockout Mice

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INVENTORS

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OTHER INFORMATION

CATEGORIZED AS

» **Medical**
» Disease: Cancer
» Therapeutics

RELATED CASES

2013-136-0

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