Transcription Active Complex Targeting Cancer Drug From Viral Protein Sequence

Tech ID: 33316 / UC Case 2020-557-0

ABSTRACT
Researchers at the University of California, Davis have developed a viral peptide therapeutic that targets MYC-based cancerous tumors.

FULL DESCRIPTION
Researchers at the University of California Davis have developed a cancer therapeutic based on an oncogenic virus. This treatment directly inhibits cancerous gene expression, preventing the genes from replicating. Thus, MYC-based tumors are targeted and destroyed. The drug has also shown impressive results in eliminating lymphomas in xenograft studies on mice, killing the cancer cells without any toxicity to the host.

APPLICATIONS
▶ Treatment of MYC-based cancers, such as lymphoma and carcinoma
▶ Potential application in combination with existing cancer drugs and antibody-based drugs to increase the latter's efficacy

FEATURES/BENEFITS
▶ The first drug to specifically and effectively target MYC pathways
▶ Low toxicity to the host being treated
▶ Can be combined with existing cancer drugs and antibody-based drugs to improve efficacy
▶ Opens avenues for applying virology in developing future cancer treatments

PATENT STATUS
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OTHER INFORMATION
KEYWORDS
cancer therapeutic, MYC, viral oncology, viral peptide sequencing, oncology, peptide

CATEGORIZED AS
▶ Medical
▶ Disease: Cancer
▶ Gene Therapy
▶ New Chemical Entities, Drug Leads
▶ Therapeutics
▶ Research Tools
▶ Nucleic Acids/DNA/RNA
▶ Protein Synthesis

RELATED CASES
2020-557-0

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS
▶ CHD4 Targeting Peptide Isolated From Viral Protein For Cancer Therapeutics
▶ Use Of Viral IL-6 To Modulate Monocyte Differentiation To Boost Anti-Tumor Immunity
▶ Cellular Protein CDH4 Inhibiting Peptide