

## Inhibitors

# **Screening Libraries**

**Proteins** 

## **Product** Data Sheet

## **GEM-231**

Cat. No.: HY-148827 CAS No.: 255810-66-3

DNA, d(P-thio)(rGm-rCm-rGm-rUm-G-C-C-T-C-A-C-rUm-rGm-rGm-rCm) Sequence:

PKA Target:

Pathway: Stem Cell/Wnt

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

**GEM-231** 

### **BIOLOGICAL ACTIVITY**

Description

GEM231 is an 18mer antisense oligonucleotide targeting the mRNA of the PKA-I (RIα regulatory subunit of cAMP dependent protein kinase type I). GEM231 induces cell growth arrest, apoptosis, and differentiation in a variety of cancer cell lines in vitro and in tumors in vivo.

### REFERENCES

[1]. Agrawal S, Kandimalla ER, Yu D, et al. GEM 231, a second-generation antisense agent complementary to protein kinase A Rlalpha subunit, potentiates antitumor activity of irinotecan in human colon, pancreas, prostate and lung cancer xenografts. Int J Oncol. 2002;21(1):65-72.

[2]. Mani S, Goel S, Nesterova M, et al. Clinical studies in patients with solid tumors using a second-generation antisense oligonucleotide (GEM 231) targeted against protein kinase A type I. Ann N Y Acad Sci. 2003;1002:252-262.

[3]. Wang H, Hang J, Shi Z, et al. Antisense oligonucleotide targeted to Rlalpha subunit of cAMP-dependent protein kinase (GEM231) enhances therapeutic effectiveness of cancer chemotherapeutic agent irinotecan in nude mice bearing human cancer xenografts: in vivo synergistic activity, pharmacokinetics and host toxicity. Int J Oncol. 2002;21(1):73-80.

Caution: Product has not been fully validated for medical applications. For research use only.

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