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<b>Product Name</b>	: AS1411	DNA, d(G-G-T-G-G-T-G-G-T-G-G-T-T-G-T-G-G-T-G-G-T-G-G-T-G-G)
<b>Cat. No.</b>	: PC-22760	
<b>CAS No.</b>	: 301636-59-9	CAS: 301636-59-9
<b>Molecular Formula</b>	: C <sub>260</sub> H <sub>322</sub> N <sub>103</sub> O <sub>163</sub> P <sub>25</sub>	
<b>Molecular Weight</b>	: 8272.31	
<b>Target</b>	: Other Targets	
<b>Solubility</b>	: 10 mM in DMSO	

## Biological Activity

AS1411 is a quadruplex-forming oligonucleotide aptamer that targets nucleolin, inhibits cancer cell proliferation. AS1411 decreases level of PRMT5 in the nucleus of DU145 human prostate cancer cells, but increases PRMT5 in the cytoplasm.

AS1411 causes relocalization of the nucleolin-PRMT5 complex from the nucleus to the cytoplasm.

AS1411 inhibits IKK activity and reduces phosphorylation of IκappaBα in response to tumor necrosis factor-α stimulation.

AS1411 blocks both tumor necrosis factor-α-induced and constitutive NF-κappaB activity in human cancer cell lines derived from cervical, prostate, breast, and lung carcinomas.

## References

Girvan AC, et al. Mol Cancer Ther. 2006 Jul;5(7):1790-9.

Teng Y, et al. Cancer Res. 2007 Nov 1;67(21):10491-500.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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