## BI 7446

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-155100 2767011-00-5 C <sub>20</sub> H <sub>22</sub> FN <sub>9</sub> O <sub>10</sub> P <sub>2</sub> S <sub>2</sub> 693.52 STING Immunology/Inflammation Please store the product under the recommended conditions in the Certificate of Analysis.	N = N O = P - O O = P - O S H
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Description	BI 7446 is a cyclic dinucleot activate all five STING varia immuno-oncology research	ide (CDN)-based potent and selective stimulator of interferon genes (STING) agonist. BI 7446 can nts in cells and induce tumor-specific immune-mediated tumor rejection. BI 7446 can be used for ${}_{\rm h}^{[1]}$ .	
In Vitro	BI 7446 (CDN13) (3 μM, 10 μM, 6 h) increases IRF3 and TBK1 phosphorylation in THP1 STING-wild type cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[1]</sup>		
	Cell Line:	wild type and STING-knock out THP1 cells	
	Concentration:	3 μΜ, 10 μΜ	
	Incubation Time:	6 h	
	Result:	Observed a dose dependent increase of IRF3 and TBK1 phosphorylation in THP1 wild type cells but not in THP1 STING knockout cells.	
In Vivo	BI 7446 (CDN13) (4, 12, 36 μ elimination half-life in 4T1 l	g for intravenous injection, 0-25 h for detection time) has a high plasma clearance and a short BALB/c mouse tumor model <sup>[1]</sup> .	
	BI 7446 (0.25, 1, 4 μg for sub	ocutaneous injection, once weekly) generates tumor regression and a long-term immunologic	
	memory against autologou	s tumor re-challenge in EMT6 mouse breast cancer model <sup>[1]</sup> .	
	Animal Model:	4T1 BALB/c mouse tumor model <sup>[1]</sup>	
	Dosage:	4, 12, 36 μg	
	Administration:	Intravenous injection (i.v.)	
	Result:	Observed a high plasma clearance and a short elimination half-life.	

Animal Model:

## ${\sf EMT6}\xspace$ mouse breast cancer model $^{[1]}$

**Product** Data Sheet



Dosage:	0.25, 1, 4 μg
Administration:	Subcutaneous injection (s.c.)
Result:	Observed dose-dependent tumor regression even at the lowest tested dose. Impaired the growth of the EMT6 tumors.

## REFERENCES

[1]. Kuttruff CA, et al. Discovery of BI 7446: A Potent Cyclic Dinucleotide STING Agonist with Broad-Spectrum Variant Activity for the Treatment of Cancer. J Med Chem. 2023 Jul 27;66(14):9376-9400.

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

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