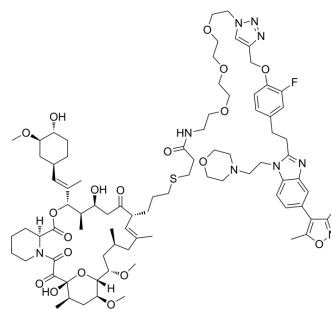


CEM114

Cat. No.:	HY-136572
CAS No.:	2279062-54-1
Molecular Formula:	C ₈₄ H ₁₂₂ FN ₉ O ₁₉ S
Molecular Weight:	1612.98
Target:	CRISPR/Cas9; Epigenetic Reader Domain
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CEM114 is an effective chemical epigenetic modifier (CEM) that recruits endogenous chromatin machinery through CRISPR-Cas9 systems ^[1] .								
In Vitro	<p>CEM114 (200 nM; 48 hours) treatment significantly activates the Green Fluorescent Protein (GFP) signal, suggesting that excess FK506 is able to outcompete CEM114 from the FKBP binding site^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HEK 293T cells</td> </tr> <tr> <td>Concentration:</td> <td>200 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 hours</td> </tr> <tr> <td>Result:</td> <td>Significantly activated the GFP signal.</td> </tr> </table>	Cell Line:	HEK 293T cells	Concentration:	200 nM	Incubation Time:	48 hours	Result:	Significantly activated the GFP signal.
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REFERENCES

[1]. Anna M Chiarella, et al. Dose-dependent activation of gene expression is achieved using CRISPR and small molecules that recruit endogenous chromatin machinery. Nat Biotechnol. 2020 Jan;38(1):50-55.

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

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