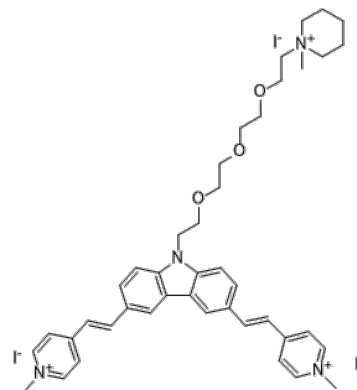


<b>Product Name</b>	: BMVC-8C3O
<b>Cat. No.</b>	: PC-24467
<b>CAS No.</b>	: 1301708-12-2
<b>Molecular Formula</b>	: C <sub>42</sub> H <sub>53</sub> N <sub>4</sub> O <sub>3.3</sub> I
<b>Molecular Weight</b>	: 1042.61
<b>Target</b>	: DNA Alkylator/Crosslinker
<b>Solubility</b>	: 10 mM in DMSO



## Biological Activity

BMVC-8C3O is a novel small molecule inhibitor of Mycobacterium tuberculosis Pks13 with IC50 of 6.94  $\mu$ M and SPR KD of 18.9  $\mu$ M, also is a small molecule G-quadruplex (G4) ligand.

BMVC-8C3O displays potential intracellular anti-TB activity in macrophages.

BMVC-8C3O also is a DNA G4 ligand, is effective for non-small cell lung cancer.

BMVC-8C3O effectively suppresses c-FOS expression by stabilizing G-rich sequences located at the c-FOS promoter.

BMVC-8C3O exhibits inhibitory effects against H37Rv and STB-30308, with MICs of 8.291 as well as 5.492  $\mu\text{g/mL}$  separately.

## References

Lu K, et al. J Natl Cancer Inst. 2023 Nov 8;115(11):1383-1391.

Wang ZF, et al. *Nucleic Acids Res.* 2016 May 5;44(8):3958-68.

Liu T, et al. Tuberculosis (Edinb). 2025 Jan;150:102579.

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

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