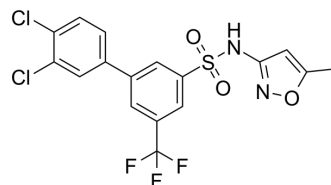


## Cas9-IN-1

Cat. No.:	HY-144118
CAS No.:	2866499-55-8
Molecular Formula:	C <sub>17</sub> H <sub>11</sub> Cl <sub>2</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub> S
Molecular Weight:	451.25
Target:	CRISPR/Cas9
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Cas9-IN-1 is a potent Cas9 inhibitor (IC <sub>50</sub> =7.02 μM), acting by binding to apo-Cas9 to prevent Cas9:gRNA complex formation [1].
<b>In Vitro</b>	Cas9-IN-1 (compound 85) (5 and 13 μM; overnight) can detach gRNA from preformed Cas9:gRNA complex while having weaker inhibitory activity, helping the E. coli selection strain to survive SpyCas9-induced killing <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Sang-Woo Lee et al. Identification and Optimization of Novel Small-Molecule Cas9 Inhibitors by Cell-Based High-Throughput Screening. Journal of Medicinal Chemistry 2022; 65(4), 3266-3305.

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

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