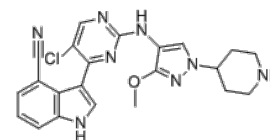


**Product Name** : CMP05  
**Cat. No.** : PC-72946  
**CAS No.** :  
**Molecular Formula** : C<sub>22</sub>H<sub>21</sub>ClN<sub>8</sub>O  
**Molecular Weight** : 448.915  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

CMP05 (Endosomolytic compound CMP05) is a novel endosomolytic small-molecule compound that exhibits higher transfection efficiency/ability to induce endosomal escape of oligonucleotides (ONs) than current compounds such as chloroquine.

CMP05 had significantly higher efficacy than CMP01 at 5  $\mu$ M, increased Splice-switching ON (SSO) activity.

CMP05 induced SSO leakage concurrently with endosomal swelling, induced SSO leakage in a mCherry-GAL9-recruitment-dependent manner.

CMP05 disrupted normal SSO trafficking through the endosomal network.

CMP05 was able to increase ON activity in a more efficacious manner than the previously published compound, UNC2383, in HeLa and HuH7 cell lines.

## References

Jeremy P Bost, et al. *Commun Biol.* 2022 Mar 1;5(1):185.

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

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