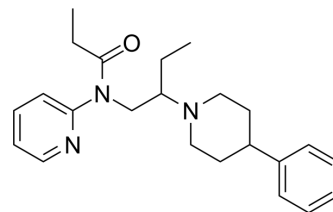


## $\sigma$ 1 Receptor/ $\mu$ Opioid receptor modulator 2

Cat. No.:	HY-163065
CAS No.:	3009018-61-2
Molecular Formula:	C <sub>23</sub> H <sub>31</sub> N <sub>3</sub> O
Molecular Weight:	365.51
Target:	Opioid Receptor; Sigma Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

$\sigma$ 1 Receptor/ $\mu$  Opioid receptor modulator 2 (compound 4x) is a dual  $\mu$ OR agonist/ $\sigma$ 1R antagonist, and displays picomolar  $\mu$  OR agonism activity ( $EC_{50}$ :  $0.6 \pm 0.2$  nM) and good  $\sigma$ 1R inhibitory activity ( $K_i$ :  $363.7 \pm 5.6$  nM).  $\sigma$ 1 Receptor/ $\mu$  Opioid receptor modulator 2 exhibits robust analgesic effects in various pain models<sup>[1]</sup>.

### REFERENCES

[1]. Miao Z, et al. A Novel Bifunctional  $\mu$ OR Agonist and  $\sigma$ 1R Antagonist with Potent Analgesic Responses and Reduced Adverse Effects. J Med Chem. 2023;66(23):16257-16275.

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

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