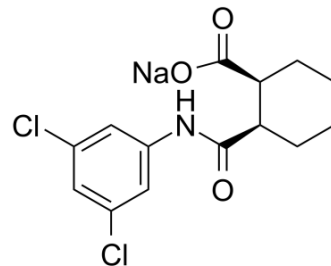


## VU0155041 sodium

<b>Cat. No.:</b>	HY-14417B
<b>CAS No.:</b>	1259372-69-4
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>14</sub> Cl <sub>2</sub> NNaO <sub>3</sub>
<b>Molecular Weight:</b>	338.16
<b>Target:</b>	mGluR
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	VU0155041 sodium is a potent, selective positive allosteric modulator (PAM) of mGluR4, with EC <sub>50</sub> s of 798 nM and 693 nM for human and rat mGluR4, respectively. VU0155041 has potential for the research of Parkinson's disease (PD) <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	mGluR4 693 nM (EC50)
<b>In Vitro</b>	VU0155041 (10 μM) does not affect NMDA receptor currents in striatal medium spiny neurons <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	VU0155041 (31 nmol, 93 nmol; i.c.v.) reverses catalepsy induced by the dopamine D2 receptor antagonist Haloperidol (1.5 mg/kg, i.p.) in rats <sup>[1]</sup> . VU0155041 (93 nmol, 316 nmol; i.c.v.) reverses Reserpine (HY-N0480) -induced akinesia in rats <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>Animal Model:</b>	Third ventricle cannulated (TVC) Male Sprague-Dawley rats (225-255 g) <sup>[1]</sup>
<b>Dosage:</b>	31, 93 nmol
<b>Administration:</b>	I.c.v. injection after the the 1.5 mg/kg of haloperidol treatment 2 h
<b>Result:</b>	Decreased the cataleptic effects of haloperidol, and the effects still presented 30 min after infusion.

### REFERENCES

[1]. Niswender CM, et, al. Discovery, characterization, and antiparkinsonian effect of novel positive allosteric modulators of metabotropic glutamate receptor 4. Mol Pharmacol. 2008 Nov; 74(5): 1345-58.

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

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