Product Data Sheet

Product Name: NMDA-IN-1
CAS No.: 700878-19-9
Cat. No.: HY-12962
MWt: 375.87
Formula: C20H23ClFN3O
Purity: >98%
Solubility: 10 mM in DMSO

Mechanisms: Pathways: Neuronal Signaling; Target: NMDA Receptor

Biological Activity:
NMDA-IN-1 is a potent and NR2B-selective NMDA antagonist with Ki of 0.85 nM; NR2B Ca2+ influx IC50 is 9.7 nM; no activities on NR2A, NR2C, NR2D, hERG-channel and α1-adrenergic receptor.

Preparation of 2-[(4-benzyl)-1-piperidinyl)methyl]benzimidazole-5-ols as NMDA NR2B receptor antagonists for the treatment of neuropathic pain.
By McCauley, James A.; Claremon, David A.; Liverton, Nigel J.

NR2B-Selective N-Methyl-D-aspartate Antagonists: Synthesis and Evaluation of 5-Substituted Benzimidazoles
By McCauley, John A.; Theberge, Cory R.; Romano, Joseph J.; Billings, Susan B.; Anderson, Kenneth D.; Claremon, David A.; Freidinger, Roger M.; Bednar, Rodney A.; Mosser, Scott D.; Gaul, Stanley L.; et al
From Journal of Medicinal Chemistry (2004), 47(8), 2089-2096.

References:

Caution: Not fully tested. For research purposes only

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