PRODUCT INFORMATION

LSN2463359
Item No. 22104

CAS Registry No.: 1401031-52-4
Formal Name: N-(1-methylethyl)-5-[2-(4-pyridinyl)ethynyl]-2-pyridinecarboxamide
MF: C_{16}H_{15}N_{3}O
FW: 265.3
Purity: ≥98%
UV/Vis.: \( \lambda_{\text{max}}: 215, 247, 297 \) nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

LSN2463359 is supplied as a crystalline solid. A stock solution may be made by dissolving the LSN2463359 in the solvent of choice. LSN2463359 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of LSN2463359 in these solvents is approximately 30 mg/ml.

Description

LSN2463359 is a positive allosteric modulator of the metabotropic glutamate receptor 5 (mGluR5; \( \text{EC}_{50} = 24 \) nM).\(^1\) It is without effect at other mGluRs. LSN2463359 is brain penetrant and reverses learning deficits in a rat model of schizophrenia.\(^1,2\) Through its effects on mGluR5, LSN2463359 attenuates deficits in performance in operant behavior induced by SDZ-220581, an NMDA (Item No. 14581) receptor antagonist, in rats.\(^2,3\) It also promotes wakefulness in animals.\(^2\)

References