

Product Name : NSI-189 Phosphate
Synonyms : NSI189 Phosphate, NSI 189 Phosphate, NSI-189 Phosphate
Cat No. : M22720
CAS Number : 1270138-41-4
Molecular Formula : C₂₂H₃₃N₄O₅P
Formula Weight : 464.5
Chemical Name : —

Description : NSI-189 Phosphate is a novel neurogenic molecule with pleiotropic properties, including antidepressant, procognitive, synaptoplastic, and neurotrophic activities demonstrated in preclinical studies. Its antidepressant activity is monoamine-independent. NSI-189 actively stimulated remodeling of the stroke brain. Parallel in vitro studies further probed this remodeling process and demonstrated that oxygen glucose deprivation and reperfusion (OGD/R) initiated typical cell death processes, which were reversed by NSI-189 treatment characterized by significant attenuation of OGD/R-mediated hippocampal cell death and increased Ki67 and MAP2 expression, coupled with upregulation of neurogenic factors such as BDNF and SCF. These findings support the use of oral NSI-189 as a therapeutic agent well beyond the initial 6-hr time window to accelerate and enhance the overall functional improvement in the initial 6 months post stroke.

Pathway : Others

Target : Other Targets

Receptor : Others

Solubility : DMSO:Soluble

SMILES : OP(O)(O)=O.CC(C)CCNc1ncccc1C(=O)N1CCN(Cc2ccccc2)CC1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Tajiri N, Quach DM, Kaneko Y, et al. NSI-189, a small molecule with neurogenic properties, exerts behavioral, and neurostructural benefits in stroke rats[J]. Journal of Cellular Physiology, 2017.