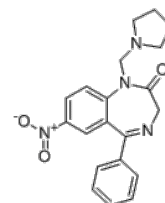


Product Name : Neurounina-1
Cat. No. : PC-73273
CAS No. : 1380337-07-4
Molecular Formula : C₂₀H₂₀N₄O₃
Molecular Weight : 364.405
Target : Sodium-calcium Exchanger (NCX)
Solubility : 10 mM in DMSO



Biological Activity

Neurounina-1 is a small molecule **Na⁺/Ca²⁺ exchanger (NCX)** activator, stimulates NCX1 and NCX2 activities with EC₅₀ of 1.1-2.7 nM, does not affect NCX3 activity.

Neurounina-1 (10 nM) reduced cell death of primary cortical neurons exposed to oxygen-glucose deprivation followed by reoxygenation, also reduced γ -aminobutyric acid (GABA) release, enhanced GABA(A) currents, and inhibited both glutamate release and N-methyl-d-aspartate receptors in vitro.

Neurounina-1 effectively protects against stroke damage in vivo.

References

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Magli E, et al. *J Med Chem*. 2021 Dec 23;64(24):17901-17919.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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