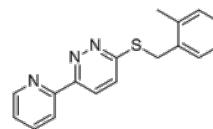


Product Name : LDN-0212320
Cat. No. : PC-61675
CAS No. : 894002-50-7
Molecular Formula : C₁₇H₁₅N₃S
Molecular Weight : 293.39
Target : Glutamate Transporter
Solubility : 10 mM in DMSO



Biological Activity

LDN-0212320 (OSU 0212320) is a small-molecule activator of glutamate transporter **EAAT2** translation with EC₅₀ of 1.83 μM.

LDN-0212320 activates PKC and subsequent Y-box-binding protein 1 (YB-1), which regulates activation of EAAT2 translation; protects cultured neurons from glutamate-mediated excitotoxic injury and death via EAAT2 activation in a murine model.

LDN-0212320 markedly delays motor function decline and extends lifespan in an animal model of ALS, reduces mortality, neuronal death, and spontaneous recurrent seizures in a pilocarpine-induced temporal lobe epilepsy model.

References

- Kong Q, et al. J Clin Invest. 2014 Mar;124(3):1255-67.
Takahashi K, et al. J Exp Med. 2015 Mar 9;212(3):319-32.
Chelini A, et al. J Med Chem. 2017 Jun 22;60(12):5216-5221.

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

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