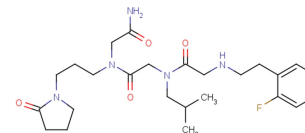


BN201

Chemical Properties

CAS No.:	1361200-34-1
Formula:	C ₂₅ H ₃₈ FN ₅ O ₄
Molecular Weight:	491.6
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	BN201 is able to cross the blood-brain barrier by active transport and activate pathways (IGF-1 pathway) associated with the response to stress and neuron survival. BN201 promotes neuronal differentiation, the differentiation of precursor cells to mature oligodendrocytes (EC ₅₀ of 6.3 μ M) in vitro. The myelination of new axons (EC ₅₀ of 16.6 μ M). BN201 has potentially neuroprotective effects[1].
Targets(IC ₅₀)	Others: None
In vitro	BN201 promotes the survival of cultured neural cells when subjected to oxidative stress or when deprived of trophic factors[1]. BN201 (10 μ M; 0.5-4 hours; Hela cells) treatment induces the phosphorylation of NDGR1 in Hela cells in a time-dependent manner[1].
In vivo	BN201 (12.5-150 mg/kg; intraperitoneal injection; daily; for 30 days; female C57BL/6 mice) treatment shows less axonal loss and neuron loss in both the spinal cord and in the optic nerve than the animals that received placebo[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.034 mL	10.171 mL	20.342 mL
5 mM	0.407 mL	2.034 mL	4.068 mL
10 mM	0.203 mL	1.017 mL	2.034 mL
50 mM	0.041 mL	0.203 mL	0.407 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Villoslada P, et al. Axonal and Myelin Neuroprotection by the Peptoid BN201 in Brain Inflammation. Neurotherapeutics. 2019 Jul;16(3):808-827.

Inhibitors · Natural Compounds · Compound Libraries

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