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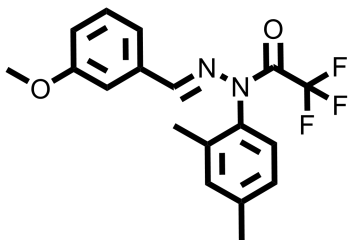
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Neuroprotective Small Molecule – J147

Chemical Name: (E)-N-(2,4-dimethylphenyl)-2,2,2-trifluoro-N'-(3-methoxybenzylidene)acetohydrazide



Molecular Weight:	350.33
Formula:	C ₁₈ H ₁₇ F ₃ N ₂ O ₂
Purity:	≥98%
CAS#:	1146963-51-0
Solubility:	DMSO up to 100 mM
Storage	Powder: 4°C 1 year DMSO: 4°C 3 months -20°C 1 year

Biological Activity:

J147 is a potent and orally active neurotrophic molecule discovered based upon efficacy in multiple cellular models of age-associated pathologies rather than exclusively amyloid metabolism. J147 is broadly neuroprotective, and active in six different assays that represent distinct neurotoxicity pathways related to aging and neurodegenerative diseases, with EC₅₀ between 10 and 200 nM. It can also improve memory in normal rodents, and prevent the loss of synaptic proteins and cognitive decline in a transgenic AD mouse model.

How to Use:

In vitro: J147 was used at 1 μM in vitro and in cellular assays.

In vivo: J147 was orally dosed to mice at 1-5 mg/kg once per day. Or the transgenic mice were fed with J147 in their chow at 200 ppm starting at 4 months of age.

Reference:

1. Chen Q, et al. A novel neurotrophic drug for cognitive enhancement and Alzheimer's disease. (2011) PLoS One. 6(12):e27865.
2. Chiruta C, et al. Metabolism of a potent neuroprotective hydrazide. (2013) Bioorg Med Chem. 21(10):2733-41.
3. Prior M, et al. The neurotrophic compound J147 reverses cognitive impairment in aged Alzheimer's disease mice. (2013) Alzheimers Res Ther. 5(3):25.

Products are for research use only. Not for human use.