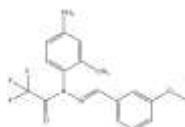


PRODUCT: J147**RELATED PRODUCTS:****ALTERNATE NAME:** 2,2,2-Trifluoroacetic acid 1-(2,4-Dimethylphenyl)-2-[(3-methoxyphenyl)methylene]hydrazide**CATALOG #:** 9426-10, 50**AMOUNT:** 10 mg, 50 mg**STRUCTURE:****MOLECULAR FORMULA:** C₁₈H₁₇F₃N₂O₂**MOLECULAR WEIGHT:** 350.33**CAS NUMBER:** 1146963-51-0**APPEARANCE:** White solid**SOLUBILITY:** DMSO (>30 mg/ml) or EtOH (>30 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light**DESCRIPTION:** J 147 is a potent neuroprotective and neurotrophic compound that protects against neurotoxicity in cortical neurons in vitro (EC₅₀ = 25 - 200 nM). Reduces soluble Aβ₄₀ and Aβ₄₂ levels and increases BDNF levels in the hippocampus *in vivo*. J 147 has been shown to enhance memory in normal animals and to prevent memory deficits in an Alzheimer's disease mouse model. These effects are associated with an increase in brain derived neurotrophic factor levels, enhanced long-term potentiation, preservation of synaptic proteins, a reduction of markers for oxidative stress and inflammation, a reduction of amyloid plaques, and lower levels of soluble amyloid β.**REFERENCES:** Prior, M., *et al.* (2013). *Alzheimers Res. Ther.* **5**, 25.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**