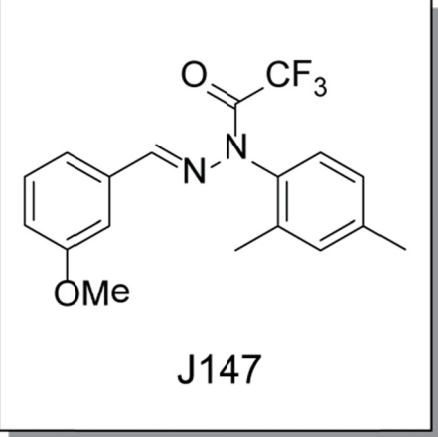




## Product Specification Sheet

<b>Product Name:</b>	J147	
<b>Catalog Number:</b>	C5147-2 (powder) C5147-2s (10mM in DMSO)	
<b>Package Size:</b>	2 mg	
<b>Technical information:</b>		
Chemical Formula:	C <sub>18</sub> H <sub>17</sub> F <sub>3</sub> N <sub>2</sub> O <sub>2</sub>	
CAS #:	1146963-51-0	
Molecular Weight:	350.33	
Purity:	>98%	
Formulation:	Yellow solid	
Solubility:	Soluble in DMSO up to 50 mM	
Chemical Name:	(E)-N-(2,4-dimethylphenyl)-2,2,2-trifluoro-N'-(3-methoxybenzylidene)acetohydrazide	
Storage:	Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.	
<b>Handling:</b>	<ul style="list-style-type: none"><li>• For C7220-2 (powder), add 571 µL of DMSO to make 10 mM solution.</li><li>• For C7220-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.</li></ul>	
<b>Biological Activity:</b>	<p>J147 was discovered based upon efficacy in multiple cell culture models of age-associated pathologies rather than exclusively amyloid metabolism. It is an exceptionally potent, orally active and broadly neuroprotective compound has the ability to enhance memory in normal animals as well as to prevent memory deficits in Alzheimer's disease (AD) transgenic mice.</p> <p>The neurotrophic and memory-enhancing activities of J147 are associated with an increase in brain derived neurotrophic factor (BDNF) levels and the expression of BDNF responsive proteins, the enhancement of LTP, the preservation of synaptic protein, the reduction of amyloid plaques, etc. These pleiotrophic effects of a single molecule suggest that J147 has potential for the treatment of AD.</p>	
<b>Reference:</b>	1. Qi Chen, et al. A novel neurotrophic drug for cognitive enhancement and Alzheimer's disease. PLoS One (2011), 6(12), e27865.	

For Technical Support: [technical@cellagentech.com](mailto:technical@cellagentech.com)

*For research only, not for clinical or diagnostic use.*