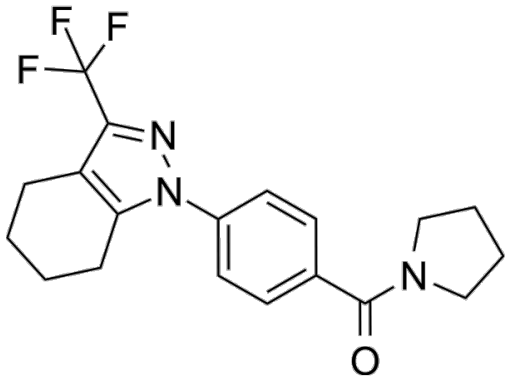
Product Data Sheet

Product Name: AMPA receptor modulator-10
Cat. No.: GC79510

Chemical Properties

Cas. No.	620940-01-4		
Formula	$C_{19}H_{20}F_3N_3O$	M.Wt	363.38
Solubility	DMSO: 12.5 mg/mL (34.40 mM; Need ultrasonic)	Storage	Store at 4°C, stored under nitrogen
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

AMPA receptor modulator-10 (Compound 9a) is an orally active AMPA receptor (AMPAR) positive allosteric modulator. AMPA receptor modulator-10 exhibits potent activity (pEC 50 = 5.0) on the

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GluA2 subtype of AMPAR, significantly enhancing glutamate-induced calcium influx and current responses. AMPA receptor modulator-10 can reverse the memory impairment induced by Scopolamine and enhance cognitive function. AMPA receptor modulator-10 can be used for the research of neurological disease, such as schizophrenia [1].

References:

[1]. Ward SE, et al. Integration of lead optimization with crystallography for a membrane-bound ion channel target: discovery of a new class of AMPA receptor positive allosteric modulators. J Med Chem. 2011 Jan 13;54(1):78-94.

Caution: Product has not been fully validated for medical applications. For research use only.

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