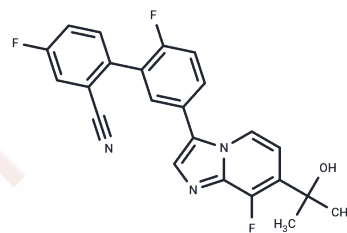


TP003

Chemical Properties

CAS No. :	628690-75-5
Formula:	C ₂₃ H ₁₆ F ₃ N ₃ O
Molecular Weight:	407.39
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	TP003 is a novel non-selective GABAA receptor benzodiazepine site agonist with affinity for $\alpha 1\beta 2\gamma 2$, $\alpha 2\beta 3\gamma 2$, $\alpha 3\beta 3\gamma 2$, $\alpha 5\beta 2\gamma 2$, EC ₅₀ of 20.3, 10.6, 3.24, 5.64 nM, respectively. TP003 has antianxiety and partial anticonvulsant activity via the $\alpha 2$ GABAA receptor.
Targets(IC ₅₀)	GABA Receptor
In vivo	In rats, TP003, a highly $\alpha 3$ -selective agonist in vitro, displays an anxiolytic-like action in the elevated plus maze and in the stress-induced hyperthermia test, and in non-human primate behavioral models of anxiety.[1]

Solubility Information

Solubility	Ethanol: 18.4 mg/mL (45.17 mM), Sonication is recommended. DMSO: 36.6 mg/mL (89.84 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4547 mL	12.2733 mL	24.5465 mL
5 mM	0.4909 mL	2.4547 mL	4.9093 mL
10 mM	0.2455 mL	1.2273 mL	2.4547 mL
50 mM	0.0491 mL	0.2455 mL	0.4909 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Dias R, et al. Evidence for a significant role of alpha 3-containing GABAA receptors in mediating the anxiolytic effects of benzodiazepines. J Neurosci. 2005;25(46):10682-10688.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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