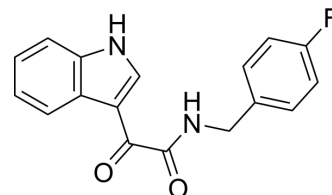


TCS1105

Cat. No.:	HY-103511
CAS No.:	185391-33-7
Molecular Formula:	C ₁₇ H ₁₃ FN ₂ O ₂
Molecular Weight:	296.3
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (421.87 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.3750 mL	16.8748 mL	33.7496 mL
	5 mM	0.6750 mL	3.3750 mL	6.7499 mL
	10 mM	0.3375 mL	1.6875 mL	3.3750 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

TCS1105 is a benzodiazepine ligand with agonist for $\alpha 2$ -subunit containing GABAA receptors and antagonist for $\alpha 1$ -subunit containing GABAA receptors. TCS1105 reduces anxiety-like behavior in mice. TCS1105 enhances offensive behavior and social dominance. TCS1105 blocks Sema3A induced AGC (axonal growth cones) collapse in a concentration-dependent fashion^{[1][2]}.

REFERENCES

- [1]. van der Kooij MA, et al. GABAA receptors in the ventral tegmental area control the outcome of a social competition in rats. *Neuropharmacology*. 2018 Aug;138:275-281.
- [2]. Xu J, et al. Anesthetics disrupt growth cone guidance cue sensing through actions on the GABAA $\alpha 2$ receptor mediated by the immature chloride gradient. *Neurotoxicol Teratol*. 2019 Jul-Aug;74:106812.

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

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