# **Product** Data Sheet

### **TP003**

 Cat. No.:
 HY-103512

 CAS No.:
 628690-75-5

 Molecular Formula:
  $C_{23}H_{16}F_3N_3O$ 

Molecular Weight: 407.39

Target: GABA Receptor

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: Powder -20°C

In solvent

4°C 2 years -80°C 6 months

3 years

-20°C 1 month

#### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 100 mg/mL (245.47 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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

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

## **BIOLOGICAL ACTIVITY**

Description

TP003 is a non-selective benzodiazepine site agonist with EC<sub>50</sub>s of 20.3, 10.6, 3.24, 5.64 nM for  $\alpha 1\beta 2\gamma 2$ ,  $\alpha 2\beta 3\gamma 2$ ,  $\alpha 5\beta 2\gamma 2$ , respectively. TP003 induces anxiolysis via  $\alpha 2GABA_A$  receptors<sup>[1]</sup>.

#### **REFERENCES**

[1]. Elena Neumann, et al. TP003 is a non-selective benzodiazepine site agonist that induces anxiolysis via  $\alpha 2 GABA_A$  receptors. Neuropharmacology. 2018 Dec;143:71-78.

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

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