# **Product** Data Sheet

## TASK-1-IN-1

Cat. No.:HY-151891CAS No.:600125-11-9Molecular Formula: $C_{22}H_{20}N_2O_2$ Molecular Weight:344.41

Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

Storage: Powder -20°C 3 years

4°C 2 years

In solvent -80°C 6 months

-20°C 1 month

#### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 66.67 mg/mL (193.58 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.9035 mL	14.5176 mL	29.0352 mL
	5 mM	0.5807 mL	2.9035 mL	5.8070 mL
	10 mM	0.2904 mL	1.4518 mL	2.9035 mL

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

### **BIOLOGICAL ACTIVITY**

**Description** TASK-1-IN-1 is a potent and selective TASK-1 (Potassium Channel) inhibitor with an IC50 of 148 nM. TASK-1-IN-1 shows a

reduced inhibition of TASK-3 channels (IC50 of 1750 nM) and not a significant effect on other K+ channels. TASK-1-IN-1 has

anticancer effects.

IC<sub>50</sub> & Target IC50: 148 nM (TASK-1) and 1750 nM (TASK-3)<sup>[1]</sup>

In Vitro TASK-1-IN-1 (compound F3) blocks cell proliferation and viability in the MCF-7 cancer cell line but not in TASK-1 knockdown

MCF-7 cells, indicating that it is acting in TASK-1 channels [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay<sup>[1]</sup>

Cell Line:	MCF-7 cells
Concentration:	10 μΜ

Incubation Time:	96 hours
Result:	Showed an antiproliferative activity of 🛮 45% on the cell line MCF-7.

#### **REFERENCES**

[1]. Bárbara Arévalo, et al. Selective TASK-1 Inhibitor with a Defined Structure-Activity Relationship Reduces Cancer Cell Proliferation and Viability. J Med Chem. 2022 Nov 24;65(22):15014-15027.

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

Tel: 609-228-6898 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

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