## TASK-1-IN-1

Cat. No.:	HY-151891		
CAS No.:	600125-11-9	Э	
Molecular Formula:	$C_{22}H_{20}N_{2}O_{2}$		
Molecular Weight:	344.41		
Target:	Potassium	Channel	
Pathway:	Membrane	Transpor	ter/Ion Channel
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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### SOLVENT & SOLUBILITY

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

<b>BIOLOGICAL ACTIV</b>	ТТҮ		
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.		
IC₅₀ & Target	IC50: 148 nM (TASK-1) and 1750 nM (TASK-3) <sup>[1]</sup>		
In Vitro	MCF-7 cells, indicating t	<ul> <li>F3) blocks cell proliferation and viability in the MCF-7 cancer cell line but not in TASK-1 knockdown hat it is acting in TASK-1 channels<sup>[1]</sup>.</li> <li>ntly confirmed the accuracy of these methods. They are for reference only.</li> <li>MCF-7 cells</li> <li>10 μM</li> </ul>	

# Product Data Sheet

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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.

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