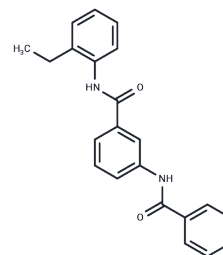


TASK-1-IN-1

Chemical Properties

CAS No. :	600125-11-9
Formula:	C ₂₂ H ₂₀ N ₂ O ₂
Molecular Weight:	344.41
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	TASK-1-IN-1 is a potent and selective inhibitor of TASK-1 (Potassium Channel) with an IC ₅₀ of 148 nM, and exhibits a reduced inhibitory effect on the TASK-3 channel with an IC ₅₀ of 1750 nM. TASK-1-IN-1 also demonstrates anticancer effects.
Targets(IC ₅₀)	Potassium Channel
In vitro	TASK-1-IN-1 (compound F3) inhibits cell proliferation and viability in MCF-7 cancer cells. This effect is absent in TASK-1 knockdown MCF-7 cells, indicating its specificity for TASK-1 channels.[1]

Solubility Information

Solubility	DMSO: 4.6 mg/mL (13.36 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	2.9035 mL	14.5176 mL	29.0352 mL
5 mM	0.5807 mL	2.9035 mL	5.807 mL
10 mM	0.2904 mL	1.4518 mL	2.9035 mL
50 mM	0.0581 mL	0.2904 mL	0.5807 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

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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