
Product Data Sheet

Product Name: TASK-1-IN-1

Cat. No.: GC69992

Chemical Properties

Cas. No. 600125-11-9

Formula $C_{22}H_{20}N_2O_2$ M.Wt 344.41

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**IC50: 148 nM (TASK-1) and 1750 nM (TASK-3)^[1]

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.

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].

Cell Proliferation Assay^[1]

Cell Line: MCF-7 cells

Concentration: 10 μM

Incubation Time: 96 hours

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Result: Showed an antiproliferative activity of ~45% on the cell line MCF-7.

[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.

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