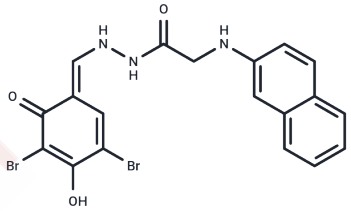
Data Sheet (Cat.No.T2451)

TargetMol

GlyH-101

Chemical Properties



CAS No. : 328541-79-3

Formula: C19H15Br2N3O3

Molecular Weight: 493.15

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	GlyH-101 is a cell-permeable glycinyl hydrazone compound that blocks CFTR with Ki of 1.4 uM.
Targets(IC50)	CFTR,Autophagy
In vitro	GlyH-101 reversibly inhibits CFTR Cl- conductance in <1 min. [1] In rabbit isolated ventricular myocytes, GlyH-101 also blocks cardiac I(Cl.PKA) channels. [2] In transfected FRT (SLC26A9-FRT) cells, GlyH-101 inhibits SLC26A9-mediated Cl- currents. [3]
In vivo	In mice, Topical GlyH-101 (10 μM) in mice rapidly and reversibly inhibits forskolin-induced hyperpolarization in nasal potential differences. In a cholera model, intraluminal GlyH-101 (2.5 μg) reduces cholera toxin-induced intestinal fluid secretion by approximately 80%.[1]

Solubility Information

Solubility	DMSO: 250 mg/mL (506.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.06 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0278 mL	10.1389 mL	20.2778 mL
5 mM	0.4056 mL	2.0278 mL	4.0556 mL
10 mM	0.2028 mL	1.0139 mL	2.0278 mL
50 mM	0.0406 mL	0.2028 mL	0.4056 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

Muanprasat C, et al. J Gen Physiol. 2004, 124(2), 125-137.
Zhang Y, Rong H, Zhang F X, et al. A Membrane Potential- and Calpain-Dependent Reversal of Caspase-1 Inhibition Regulates Canonical NLRP3 Inflammasome. Cell Reports. 2018, 24(9): 2356-2369. e5
Barman PP, et al. Biochem Biophys Res Commun. 2011, 408(1), 12-17.
Salomon JJ, et al. Am J Physiol Lung Cell Mol Physiol. 2016. doi: 10.1152/ajplung.200321.2015.
Zhang, Yifei, et al. A Membrane Potential- and Calpain-Dependent Reversal of Caspase-1 Inhibition Regulates Canonical NLRP3 Inflammasome [J]. Cell Reports. 2018 Aug 28;24(9):2356-2369.e5.