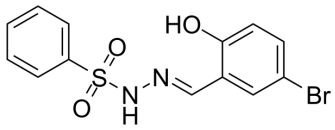
Shz-1

Cat. No.:	HY-108440
CAS No.:	326886-05-9
Molecular Formula:	$C_{13}H_{11}BrN_2O_3S$
Molecular Weight:	355.21
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (703.81 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8152 mL	14.0762 mL	28.1524 mL
	5 mM	0.5630 mL	2.8152 mL	5.6305 mL
	10 mM	0.2815 mL	1.4076 mL	2.8152 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (5.86 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.86 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.86 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Shz-1, a small cardiogenic molecule, induces various cardiac-specific genes including sarcomeric tropomyosin in P19CL6 cells. Shz-1 induces Nkx2.5 expression in mouse. Shz-1 activates the axolotl TPM4 promoter-driven ectopic expression in C2C12 cells[1].

REFERENCES

[1]. Changlong Nan, et al. Expression of sarcomeric tropomyosin in striated muscles in axolotl treated with shz-1, a small cardiogenic molecule. Cardiovasc Toxicol. 2015 Jan;15(1):29-40.

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