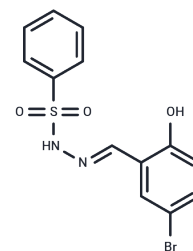


## Shz 1

## Chemical Properties

CAS No. : 326886-05-9  
 Formula: C<sub>13</sub>H<sub>11</sub>BrN<sub>2</sub>O<sub>3</sub>S  
 Molecular Weight: 355.21  
 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	Shz 1 is a cardiogenic agent that induces phenotypic differentiation and various cardiac-specific genes including sarcomeric tropomyosin.
Targets(IC50)	Others, Myosin
In vitro	Shz-1 shows a ~1.5-fold increase in cardiac transcripts of the Nkx2.5 gene. Shz-1 augments the expression of transcripts of the total sarcomeric TPM1 (both TPM1 $\alpha$ & TPM1 $\kappa$ ) and sarcomeric TPM4 $\alpha$ . Shz-1 activates the axolotl TPM4 promoter-driven ectopic expression in C2C12 cells[1].

## Solubility Information

Solubility	DMSO: 4.8 mg/mL (13.51 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: 1 mg/mL (2.82 mM), Sonication is recommended. <i>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.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.8152 mL	14.0762 mL	28.1524 mL
5 mM	0.563 mL	2.8152 mL	5.6305 mL
10 mM	0.2815 mL	1.4076 mL	2.8152 mL
50 mM	0.0563 mL	0.2815 mL	0.563 mL

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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

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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