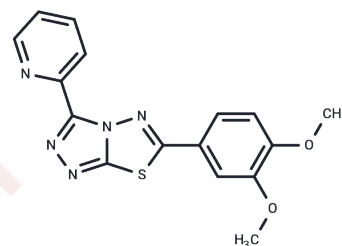


## Cardionogen-2

## Chemical Properties

CAS No. :	578755-52-9
Formula:	C16H13N5O2S
Molecular Weight:	339.372
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	Cardionogen-2 is a biphasic cardiac regulatory agent that can either promote or inhibit heart formation depending on the intervention stage. It inhibits Wnt/ $\beta$ -catenin-dependent transcription in mouse embryonic stem cells and zebrafish embryos.
Targets(IC50)	Wnt/beta-catenin
In vitro	Cardionogen-2 enhances cardiac formation during and after gastrulation in zebrafish embryos and mouse embryonic stem cells (ES), while it inhibits cardiac formation before gastrulation. The effects induced by Cardionogen-2 are counteracted by enhancing Wnt/ $\beta$ -catenin signaling activity. Cardionogen-2 suppresses Wnt/ $\beta$ -catenin-dependent transcription in mouse ES cells and zebrafish embryos [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9466 mL	14.7332 mL	29.4664 mL
5 mM	0.5893 mL	2.9466 mL	5.8933 mL
10 mM	0.2947 mL	1.4733 mL	2.9466 mL
50 mM	0.0589 mL	0.2947 mL	0.5893 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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