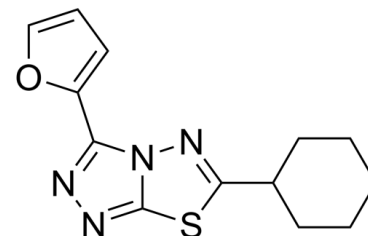


Data Sheet

| | |
|---------------------------|---|
| Product Name: | Cardionogen 1 |
| Cat. No.: | CS-W012332 |
| CAS No.: | 577696-37-8 |
| Molecular Formula: | C ₁₃ H ₁₄ N ₄ OS |
| Molecular Weight: | 274.34 |
| Target: | Wnt |
| Pathway: | Stem Cell/Wnt |
| Solubility: | 10 mM in DMSO |



BIOLOGICAL ACTIVITY:

Cardionogen 1 (CDNG1/vuc230) is a **Wnt** signaling pathway inhibitor that slows down Myc-induced liver tumorigenesis. Cardionogen 1 treatment of zebrafish embryos before gastrulation inhibits cardiomyocyte formation, whereas treatment during or after gastrulation induces cardiomyocyte formation. Cardionogen 1 has potential in research into cancer and cardiovascular disease^{[1][2]}.

References:

[1]. Yan C, et al. Chemical inhibition reveals differential requirements of signaling pathways in krasV12- and Myc-induced liver tumors in transgenic zebrafish. *Sci Rep.* 2017 Apr 5;7:45796.

[2]. Plowright AT, et al. Heart regeneration: opportunities and challenges for drug discovery with novel chemical and therapeutic methods or agents. *Angew Chem Int Ed Engl.* 2014 Apr 14;53(16):4056-75.

CAIndexNames:

1,2,4-Triazolo[3,4-b][1,3,4]thiadiazole, 6-cyclohexyl-3-(2-furanyl)-

SMILES:

C12=NN=C(C3=CC=CO3)N1N=C(C4CCCCC4)S2

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

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