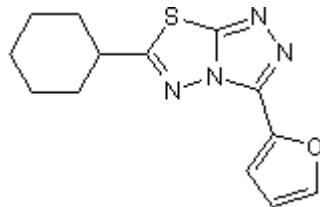


Certificate of Analysiswww.tocris.com**Product Name:** Cardionogen 1**Catalog No.:** 4475**Batch No.:** 1

CAS Number: 577696-37-8

IUPAC Name: 6-Cyclohexyl-3-(2-furanyl)-1,2,4-triazolo[3,4-*b*][1,3,4]thiadiazole**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₃H₁₄N₄OS.1/4H₂O**Batch Molecular Weight:** 278.84**Physical Appearance:** Off-white solid**Solubility:** DMSO to 20 mM
ethanol to 10 mM**Storage:** Store at +4°C**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.75 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])**HPLC:** Shows 99.6% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:**

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

www.tocris.com**Product Name:** Cardionogen 1**Catalog No.:** 4475**Batch No.:** 1

CAS Number: 577696-37-8

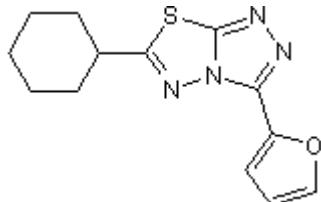
IUPAC Name: 6-Cyclohexyl-3-(2-furanyl)-1,2,4-triazolo[3,4-*b*][1,3,4]thiadiazole**Description:**

Wnt signaling modulator. Potently inhibits Wnt/β-catenin-dependent transcription in murine ES cells ($EC_{50} = 23$ nM) and zebrafish embryos. Enlarges heart size via cardiomyocyte hyperplasia; induces ES cell cardiac differentiation.

Physical and Chemical Properties:Batch Molecular Formula: $C_{13}H_{14}N_4OS_{1/4}H_2O$

Batch Molecular Weight: 278.84

Physical Appearance: Off-white solid

Minimum Purity: >99%**Batch Molecular Structure:****Storage:** Store at +4°C**Solubility & Usage Info:**DMSO to 20 mM
ethanol to 10 mM**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Ni *et al* (2011) Discovering small molecules that promote cardiomyocyte generation by modulating Wnt signaling. *Chem.Biol.* **18** 1658. PMID: 22195568.

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