

Product Name: ERGi-USU

Catalog No.: 6632

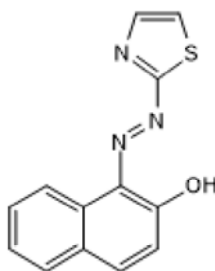
Batch No.: 2

CAS Number: 1147-56-4

IUPAC Name: 1-[2-(2-Thiazolyl)diazenyl]-2-naphthalenol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₉N₃O_s
Batch Molecular Weight: 255.3
Physical Appearance: Red solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.16	3.55	16.46
Found	61.01	3.5	16.25

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

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Description:

High affinity Rio Kinase 2 (RIOK2) inhibitor ($K_d = 200$ nM). Exhibits >6-fold selectivity for RIOK2 over a panel of 456 kinases. Inhibits ERG protein and potently inhibits growth of ERG-positive VCaP prostate cancer cells in vitro ($IC_{50} = 169$ nM) but not ERG-negative cell lines. Also inhibits growth of VCaP xenografts in mice.

Physical and Chemical Properties:

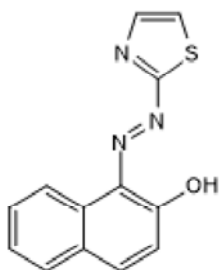
Batch Molecular Formula: $C_{13}H_9N_3O_S$

Batch Molecular Weight: 255.3

Physical Appearance: Red solid

Minimum Purity: ≥99%

Batch Molecular Structure:



References:

Mohamed et al (2018) Identification of a small molecule that selectively inhibits ERG-positive cancer cell growth. *Cancer Res.* **78** 3659. PMID: 29712692.

Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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.

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