TOCRIS b i o s c i e n c e

Print Date: Oct 18th 2014

Certificate of Analysis

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Batch No.: 1

Catalog No.: 5173

Product Name: MS 436

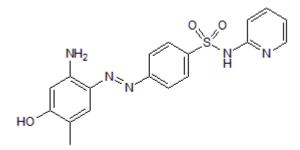
CAS Number: IUPAC Name:

1395084-25-9

(E)-4-[2-(2-Amino-4-hydroxy-5-methylphenyl)diazenyl]-N-2-pyridinylbenzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_{18}H_{17}N_5O_3S.1\frac{1}{4}H_2O$ 405.94 Red solid DMSO to 100 mM Store at -20°C



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.48 (Dichloromethane:Methanol [9:1]) Shows 99% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

Theoretical	53.26	4.84	17.25
Found	53.23	4.7	16.86

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



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(E)-4-[2-(2-Amino-4-hydroxy-5-methylphenyl)diazenyl]-N-2-pyridinylbenzenesulfonamide

Description:

Potent and selective BRD4 bromodomain inhibitor ($K_i = 30 - 50$ nM for the first bromodomain (BRD4(1)). Exhibits 10-fold selectivity for BRD4(1) over BRD4(2). Blocks BRD4 transcriptional activity in lipopolysaccharide-induced production of both nitric oxide and IL-6 in mouse macrophages (IC₅₀ values are 3.8 and 4.9 μ M, respectively). Attenuates melanoma cell proliferation in vitro.

1395084-25-9

Physical and Chemical Properties:

Batch Molecular Formula: $C_{18}H_{17}N_5O_3S.1\frac{1}{4}H_2O$ Batch Molecular Weight: 405.94 Physical Appearance: Red solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at -20°C

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

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Solubility & Usage Info:

DMSO to 100 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:

Zhang et al (2013) Structure-guided design of potent diazobenzene inhibitors for the BET bromodomains. J.Med.Chem. 56 9251. PMID: 24144283.

Segura *et al* (2013) BRD4 sustains melanoma proliferation and represents a new target for epigenetic therapy. Cancer Res. **73** 6264. PMID: 23950209.

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