

Certificate of Analysis

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Product Name: Shz 1

Catalog No.: 4923

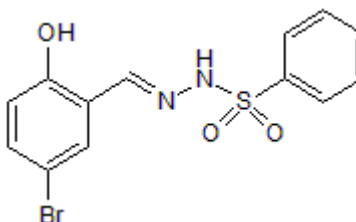
Batch No.: 1

CAS Number: 326886-05-9

IUPAC Name: 2-[(5-Bromo-2-hydroxyphenyl)methylene]hydrazide benzenesulfonic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₁BrN₂O₃S
Batch Molecular Weight: 355.21
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	43.96	3.12	7.89
Found	43.97	3.12	7.93

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

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IUPAC Name: 2-[(5-Bromo-2-hydroxyphenyl)methylene]hydrazide benzenesulfonic acid

Description:

Activator of early cardiac genes (including Nkx2.5) in pluripotent stem cells. Induces phenotypic differentiation in human mobilized peripheral blood mononuclear cells. Enhances myocardial regenerative repair by stem cells in a rat myocardial cryoinjury model.

Physical and Chemical Properties:

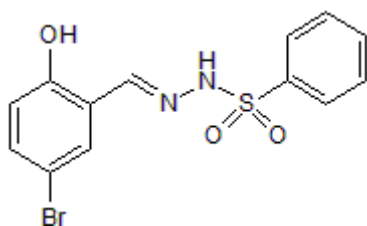
Batch Molecular Formula: C₁₃H₁₁BrN₂O₃S

Batch Molecular Weight: 355.21

Physical Appearance: Off-white 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.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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:

Sadek et al (2008) Cardiogenic small molecules that enhance myocardial repair by stem cells. *Proc.Natl.Acad.Sci.U.S.A.* **105** 6063. PMID: 18420817.

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