

Product Name: GoSlo SR 5-69

Catalog No.: 5814

Batch No.: 1

CAS Number: 1363419-31-1

IUPAC Name: Sodium 1-Amino-9,10-dioxo-4-((5,6,7,8-tetrahydronaphthalen-2-yl)amino)-9,10-dihydroanthracene-2-sulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₁₉N₂NaO₅S.2H₂O

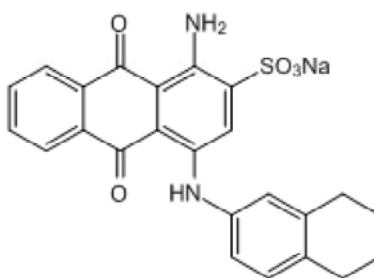
Batch Molecular Weight: 506.5

Physical Appearance: Blue/black solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.91	4.58	5.53
Found	56.92	4.26	5.28

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

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Description:

BK channel activator (EC_{50} = 251 nM). Shifts the voltage required for half maximal negatively ($DV_{1/2}$ = -104 mV).

Physical and Chemical Properties:

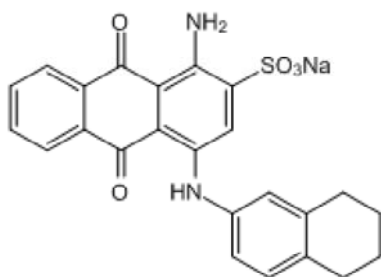
Batch Molecular Formula: $C_{24}H_{19}N_2NaO_5S \cdot 2H_2O$

Batch Molecular Weight: 506.5

Physical Appearance: Blue/black solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

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:

Schewe *et al* (2019) A pharmacological master key mechanism that unlocks the selectivity filter gate in K^+ channels. *Science* **363** 875. PMID: 30792303.

Roy *et al* (2014) Development of GoSlo-SR-5-69, a potent activator of large conductance Ca^{2+} -activated K^+ (BK) channels. *Eur.J.Med.Chem.* **75** 426. PMID: 24561672.

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