1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{14}\text{H}_{15}\text{NO}_{2}\text{S} \)

Batch Molecular Weight: 261.34

Physical Appearance: White crystalline solid

Solubility: ethanol to 70 mM

DMSO to 100 mM

Storage: Desiccate at RT

2. ANALYTICAL DATA

Melting Point: Between 116 - 118°C

HPLC: Shows 100% purity

\( ^1\text{H} \text{ NMR} \): Consistent with structure

\( ^{13}\text{C} \text{ NMR} \): Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 64.34 5.79 5.36

Found 64.36 5.78 5.41
Product Name: BTS
Catalog No.: 1870
Batch No.: 1

Product Information

CAS Number: 1576-37-0
IUPAC Name: 4-Methyl-N-(phenylmethyl)benzenesulfonamide

Description:
Selective inhibitor of the ATPase activity of skeletal muscle myosin II subfragment 1 (S1) (IC_{50} ~ 5 mM). Reversibly blocks gliding motility and suppresses force and twitch production in fast skeletal muscle.

Physical and Chemical Properties:
Batch Molecular Formula: C_{14}H_{15}NO_{2}S
Batch Molecular Weight: 261.34
Physical Appearance: White crystalline solid
Minimum Purity: ≥99%

Storage: Desiccate at RT

Solubility & Usage Info:
ethanol to 70 mM
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: