1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C₅H₃N₅O₂S₃
- **Batch Molecular Weight:** 261.3
- **Physical Appearance:** Yellow solid
- **Solubility:** DMSO to 100 mM, ethanol to 10 mM
- **Storage:** Store at RT

2. ANALYTICAL DATA

- **TLC:** Rᵣ = 0.32 (Ethyl acetate:Hexane [9:1])
- **HPLC:** Shows 99.5% purity
- **¹H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  
<table>
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<th>Element</th>
<th>Theoretical</th>
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<tbody>
<tr>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** SU 3327  
**CAS Number:** 40045-50-9  
**IUPAC Name:** 5-[(5-Nitro-2-thiazolyl)thio]-1,3,4thiadiazol-2-amine

**Description:**
Selective inhibitor of c-Jun N-terminal kinase (JNK) (IC₅₀ = 0.7 μM). Inhibits the protein-protein interaction between JNK and JIP (IC₅₀ = 239 nM). Displays selectivity over p38 MAPK and Akt. Restores insulin sensitivity in a mouse model of type-2 diabetes.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₉H₇N₅O₃S₃
- **Batch Molecular Weight:** 261.3
- **Physical Appearance:** Yellow solid
- **Minimum Purity:** >99%

**Storage:** Store at RT

**Solubility & Usage Info:**
- DMSO to 100 mM
- Ethanol to 10 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:**

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<table>
<thead>
<tr>
<th>bio-techne.com</th>
<th>North America</th>
<th>China</th>
<th>Europe Middle East Africa</th>
<th>Rest of World</th>
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