1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{11}\text{H}_{10}\text{BrN}_{3} \)
Batch Molecular Weight: 264.12
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM ethanol (supplied pre-dissolved in absolute ethanol, 27µg/ml) to 50 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.22 \) (Ethyl acetate:Petroleum ether [1:4])
HPLC: Shows 99.6% purity
\(^1\text{H} \text{NMR:}\) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>50.02</td>
<td>49.97</td>
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<tr>
<td>Hydrogen</td>
<td>3.82</td>
<td>3.91</td>
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<tr>
<td>Nitrogen</td>
<td>15.91</td>
<td>15.84</td>
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</tbody>
</table>
Product Name: SMER 28
CAS Number: 307538-42-7
IUPAC Name: 6-Bromo-N-2-propenyl-4-quinazolinamine

Description:
Positive regulator of autophagy in a mechanism independent from the mTOR pathway. Increases autophagosome synthesis and enhances clearance of model autophagy substrates such as mutant huntingtin and A53T α-synuclein, associated with Huntington’s disease and Parkinson’s disease, respectively.

Physical and Chemical Properties:
Batch Molecular Formula: C_{11}H_{10}BrN_3
Batch Molecular Weight: 264.12
Physical Appearance: Off-white solid
Minimum Purity: >99%

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM ethanol (supplied pre-dissolved in absolute ethanol, 27µg/ml) 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:

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