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Certificate of Analysis

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Product Name: SMER 28

Catalog No.: 4297 Batch No.: 1

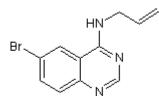
CAS Number: 307538-42-7 IUPAC Name: 6-Bromo-*N*-2-propenyl-4-quinazolinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₁₁H₁₀BrN₃ 264.12 Off-white solid DMSO to 100 mM ethanol (supplied pre-dissolved in absolute ethanol, 27µg/ml) to 50 mM Store at +4°C



2. ANALYTICAL DATA

Storage:

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.22 (Ethyl acetate:Petroleum ether [1:4]) Shows 99.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 50.02 3.82 15.91 Found 49.97 3.91 15.84

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

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Print Date: May 10th 2016

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Product Name: SMER 28

CAS Number: 307538-42-7 IUPAC Name: 6-Bromo-*N*-2-propenyl-4-quinazolinamine

Description:

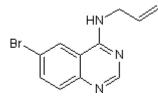
Positive regulator of autophagy in a mechanism independent from the mTOR pathway. Increases autophagosome synthesis and enhances clearance of model autophagy substrates such as mutant huntingtin and A53T α -synuclein, associated with Huntington's and Parkinson's diseases, respectively. Promotes reprogramming of fibroblasts to neural stem-like cells in combination with other chemical reagents.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₁H₁₀BrN₃ Batch Molecular Weight: 264.12 Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol (supplied pre-dissolved in absolute ethanol, $27\mu\text{g/ml})$ to 50 mM

Catalog No.: 4297

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:

Zhang et al (2016) Pharmacological reprogramming of fibroblasts into neural stem cells by signaling-directed transcriptional activation. Cell Stem Cell **18** 653. PMID: 27133794.

Renna *et al* (2010) Chemical inducers of autophagy that enhance the clearance of mutant proteins in neurodegenerative diseases. J.Biol.Chem. **285** 11061. PMID: 20147746.

Sarkar *et al* (2010) Small molecules enhance autophagy and reduce toxicity in Huntington's disease models. Nat.Chem.Biol. **3** 331. PMID: 17486044.

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info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956