

**Product Name:** SMER 28

**Catalog No.:** 4297

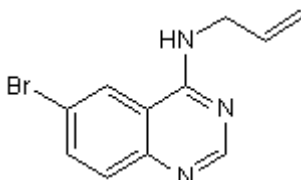
**Batch No.:** 1

**CAS Number:** 307538-42-7

**IUPAC Name:** 6-Bromo-N-2-propenyl-4-quinazolinamine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>11</sub>H<sub>10</sub>BrN<sub>3</sub>  
**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  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.22 (Ethyl acetate:Petroleum ether [1:4])  
**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	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

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**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  $\alpha$ -synuclein, associated with Huntington's disease and Parkinson's disease, respectively.

**Physical and Chemical Properties:**

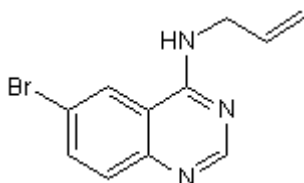
Batch Molecular Formula: C<sub>11</sub>H<sub>10</sub>BrN<sub>3</sub>

Batch Molecular Weight: 264.12

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**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.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol (supplied pre-dissolved in absolute ethanol, 27 $\mu$ g/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.

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