

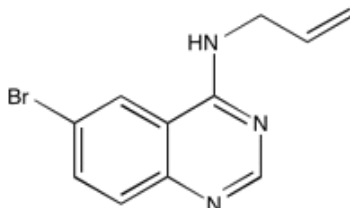
Catalog # 10-1287

SMER28

CAS# 307538-42-7

6-Bromo-4-allylaminoquinazoline

Lot # X103032



Induces autophagy via an mTOR-independent pathway. Enhances clearance of β -amyloid protein in cell lines and primary neuronal culture models.¹⁻³ May be a useful lead compound for the development of new therapeutics for neurodegenerative diseases.⁴ Induces the release of articular cartilage vesicles from healthy articular chondrocytes in a dose- and time-dependent manner.⁵ Promotes reprogramming of fibroblasts to neural stem-like cells.⁶ Cell permeable.

- 1) Tian *et al.* (2011), *A small-molecule enhancer of autophagy decreases levels of Abeta and APP-CTF via Atg5-dependent autophagy pathway*; *FASEB J.*, **25** 1934
- 2) Tian *et al.* (2014), *the convergence of endosomal and autophagosomal pathways; implications for APP-CTF degradation*; *Autophagy*, **10** 694
- 3) Shen *et al.* (2011), *Novel cell- and tissue-based assays for detecting misfolded and aggregated protein accumulation within aggresomes and inclusion bodies*; *Cell Biochem. Biophys.*, **60** 173
- 4) Renna *et al.* (2010), *chemical inducers of autophagy that enhance the clearance of mutant proteins in neurodegenerative diseases*; *J. Biol. Chem.*, **285** 11061
- 5) Rosenthal *et al.* (2015), *Autophagy modulates articular cartilage vesicle formation in primary articular chondrocytes*; *J. Biol. Chem.*, **290** 13028
- 6) Zhang *et al.* (2016), *Pharmacological Reprogramming of Fibroblasts into Neural Stem Cells by Signaling-Directed Transcriptional Activation*; *Cell Stem Cell.*, **18** 653

PHYSICAL DATA

Molecular Weight:	264.12
Molecular Formula:	C ₁₁ H ₁₀ BrN ₃
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 2 mg/ml)
Physical Description:	Beige solid
Storage and Stability:	Store as supplied, desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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