



Catalog Number:	MC11002	Product Type:	Small Molecule
Bio-Activity:	SIRT2 Inhibitor	CAS #:	420831-40-9
Research Categories:	Epigenetics, neuroscience	Chemical Name:	3-(1-Azepanylsulfonyl)-N-(3-bromophenyl)benzamide
Solubility:	Soluble in DMSO (up to 50 mg/ml) or in Ethanol (up to 8 mg/ml with warming).	Molecular Formula:	C19H21BrN2O3S
Purity:	> 98%	Molecular Weight:	437.36
Format:	Powder	Ship Temp:	Ambient
Storage:	Room Temperature		

Application Notes

Description/Data:

AK-7 has been shown to be a SIRT2 inhibitor but does not inhibit Sirt1 or Sirt3. In primary striatal neurons, SIRT2 has been shown to down-regulate cholesterol biosynthesis genes (1). Additionally, it has been associated with protecting neurons in Huntington's disease research, leading to better motor function, extended survival and reduced brain atrophy (2). SIRT2 also has been used in Alzheimer's disease research (3).

References:

- 1) DM Taylor et al. *ACS Chem. Biol.* 2011 6:540
- 2) V Chopra et al. *Cell Rep.* 2012 2:1492
- 3) Y Wang et al. *Aging Cell* 2020 July 23:e13194

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