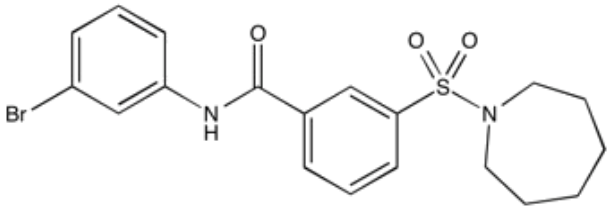
Catalog # 10-1429

AK-7

CAS# 420831-40-9

3-(1-Azepanylsulfonyl)-N-(3-bromophenyl)benzamide

Lot # X105311



A selective Sirt2 inhibitor (IC_{50}=15.5 µM) which does not inhibit Sirt1 or Sirt3[1]. It down regulates cholesterol biosynthesis genes in primary striatal neurons[1]. Displays neuroprotective effects in Huntington's disease mouse models including improved motor function, extended survival and reduced brain atrophy all of which were associated with reduced aggregated mutant huntingtin[2].

1) Tylor *et al*. (2011), *A brain-permeable small molecule that reduces neuronal cholesterol by inhibiting activity of sirtuin 2 deacetylase*; ACS Chem. Biol., **6** 540
2) Chopra *et al*. (2012), *The sirtuin 2 inhibitor AK-7 is neuroprotective in Huntington's disease mouse models*; Cell Rep., **2** 1492

PHYSICAL DATA

Molecular Weight:	437.36
Molecular Formula:	$C_{19}H_{21}BrN_2O_3S$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Ethanol (up to 8 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 3 years 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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