

**DATA SHEET**

**Product Name:** AK-7

**Catalog #:** N-3003

**Alt:** CAS# 420831-40-9; 3-(1-Azepanylsulfonyl)-N-(3-bromophenyl)benzamide

**Source:** Synthetic

**Molecular Mass:** 437.4 Da C<sub>19</sub>H<sub>21</sub>BrN<sub>2</sub>O<sub>3</sub>S

**Analysis:** 98% (TLC); NMR (Conforms)

**Supplied As:** White powder; MP=148-151°C

**Resuspension:** May be dissolved in DMSO (50 mg/ml); or ethanol (8 mg/ml, warm)

**Storage:** Store desiccated as supplied at ambient temperature for up to 3 years.  
Store solutions at - 20°C for up to 3 months.

**Description:** A selective Sirt2 inhibitor (IC<sub>50</sub>=15.5 μM) which does not inhibit Sirt1 or Sirt3<sup>1</sup>. It downregulates cholesterol biosynthesis genes in primary striatal neurons<sup>1</sup>. 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<sup>2</sup>.

**References:** 1. Taylor, D.M., et al., (2011) ACS Chem. Biol., 6 : 540  
2. Chopra, V., et al., (2012) Cell Rep., 2 : 1492

***For research use only. Not for use in humans.***