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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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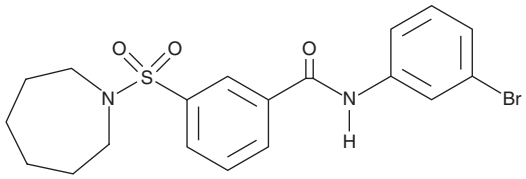
PRODUCT INFORMATION

AK-7

Item No. 14004

CAS Registry No.:	420831-40-9
Formal Name:	N-(3-bromophenyl)-3-[(hexahydro-1H-azepin-1-yl) sulfonyl]-benzamide
MF:	$C_{19}H_{21}BrN_2O_3S$
FW:	437.4
Purity:	≥95%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

AK-7 is supplied as a crystalline solid. A stock solution may be made by dissolving the XX in the solvent of choice. XX is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of AK-7 in these solvents is approximately 1, 5, and 15 mg/ml, respectively.

AK-7 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AK-7 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. AK-7 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

AK-7 is a cell- and brain-permeable inhibitor of SIRT2 (IC_{50} = 15.5 µM).{21802} In culture, it diminishes neuronal cell death induced by mutant huntingtin fragment.{21802} In addition, AK-7 down-regulates cholesterol biosynthetic gene expression and reduces total cholesterol levels in neurons *in vivo*.{21802}

Reference

1. Taylor, D.M., Balabadra, U., Xiang, Z., *et al.* A brain-permeable small molecule reduces neuronal cholesterol by inhibiting activity of sirtuin 2 deacetylase. *ACS Chem. Biol.* **6(6)**, 540-546 (2011).

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