BI-6C9
Item No. 17265

CAS Registry No.: 791835-21-7
Formal Name: N-[4-[(4-aminophenyl)thio]phenyl]-4-[[4-(methoxyphenyl)sulfonyl]amino]-butanamide
MF: C23H25N3O4S2
FW: 471.6
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: \( \lambda_{\text{max}} \) 242, 272 nm

Laboratory Procedures
For long term storage, suggest that BI-6C9 be stored as supplied at -20°C. It should be stable for at least two years.

BI-6C9 is supplied as a crystalline solid. A stock solution may be made by dissolving the BI-6C9 in the solvent of choice. BI-6C9 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of BI-6C9 in ethanol is approximately 0.5 mg/ml and approximately 30 mg/ml in DMSO and DMF.

BI-6C9 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BI-6C9 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. BI-6C9 has a solubility of approximately 0.2 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

BH3-interacting domain (Bid) is cleaved by caspase-8 to produce the truncated protein tBid, which facilitates cytochrome c release from mitochondria and drives apoptosis.1,2 BI-6C9 is an inhibitor of tBid (Kd = 20 µM), blocking the release of both cytochrome c and second mitochondria-derived activator of caspase from mitochondria.3,4 It prevents apoptosis in neurons treated with glutamate or oxygen-glucose deprivation.5,6 BI-6C9 (10 µM) also inhibits the nuclear translocation of apoptosis-induced factor AIF, preventing the death of ovarian OVCAR-3 cancer cells induced by IFN-α.7

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/17265

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent with our email to your institution.

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