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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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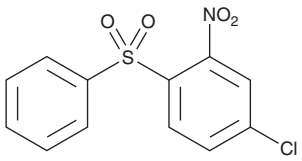
PRODUCT INFORMATION

BTB-1

Item No. 27219

CAS Registry No.: 86030-08-2
Formal Name: 4-chloro-2-nitro-1-(phenylsulfonyl)-benzene
Synonyms: NSC 156750, NSC 658180
MF: $C_{12}H_8ClNO_4S$
FW: 297.7
Purity: ≥98%
UV/Vis.: λ_{max}: 231 nm
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

BTB-1 is supplied as a crystalline solid. A stock solution may be made by dissolving the BTB-1 in the solvent of choice. BTB-1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of BTB-1 in ethanol is approximately 3 mg/ml and approximately 10 mg/ml in DMSO and DMF.

BTB-1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BTB-1 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. BTB-1 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

BTB-1 is a reversible inhibitor of the kinesin-8 family motor protein Kif18A (IC_{50} = 1.69 µM).[1] It is selective for Kif18A over a panel of seven kinesins at 100 µM. BTB-1 (100 µM) inhibits Kif18A-dependent microtubule motility in a microtubule gliding assay. It induces mitotic accumulation of HeLa cells in a dose-dependent manner.

Reference

1. Catarinella, M., Grüner, T., Strittmatter, T., *et al.* BTB-1: A small molecule inhibitor of the mitotic motor protein Kif18A. *Angew Chem. Int. Ed. Engl.* **48(48)**, 9072-9076 (2009).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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