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Produktinformation

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

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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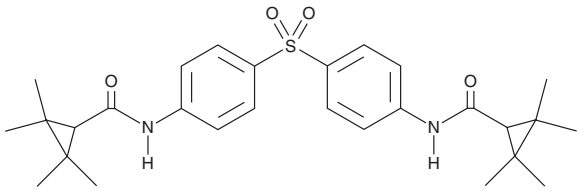
PRODUCT INFORMATION

BRD7116

Item No. 20570

CAS Registry No.:	329059-55-4
Formal Name:	N,N'-(sulfonyldi-4,1-phenylene) *bis*[2,2,3,3-tetramethyl-cyclopropanecarboxamide
MF:	$C_{28}H_{36}N_2O_4S$
FW:	496.7
Purity:	≥98%
UV/Vis.:	λ_{max}: 263, 292 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

BRD7116 is supplied as a crystalline solid. A stock solution may be made by dissolving the BRD7116 in the solvent of choice, which should be purged with an inert gas. BRD7116 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of BRD7116 in these solvents is approximately 10 mg/ml.

BRD7116 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BRD7116 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. BRD7116 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

BRD7116 is a *bis*-aryl sulfone that acts as a selective inhibitor of leukemia stem cell activity. It exhibits an EC_{50} value of 200 nM for leukemia stem cells isolated from the bone marrow of leukemic animals in co-culture but does not affect normal hematopoietic stem cells or AML cell lines (EC_{50}s = 20 µM).[1] Its exact mechanism is not well understood but is thought to involve impairment of the stroma's ability to support leukemia stem cells by inducing transcriptional changes consistent with myeloid differentiation.[1]

Reference

1. Hartwell, K.A., Miller, P.G., Mukherjee, S., *et al.* Niche-based screening identifies small-molecule inhibitors of leukemia stem cells. *Nat. Chem. Biol.* **9(12)**, 840-848 (2013).

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