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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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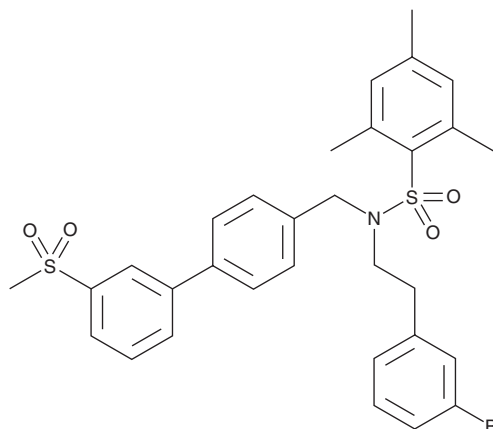
PRODUCT INFORMATION



SR9243

Item No. 18420

CAS Registry No.: 1613028-81-1
Formal Name: N-[2-(3-bromophenyl)ethyl]-2,4,6-trimethyl-N-[[3'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]methyl]benzenesulfonamide
MF: C₃₁H₃₂BrNO₄S₂
FW: 626.6
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 256 nm



Laboratory Procedures

For long term storage, we suggest that SR9243 be stored as supplied at -20°C. It should be stable for at least two years.

SR9243 is supplied as a crystalline solid. A stock solution may be made by dissolving the SR9243 in the solvent of choice. SR9243 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of SR9243 in these solvents is approximately 1 and 10 mg/ml, respectively.

SR9243 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

The liver X receptors (LXRs) are nuclear receptors that act as ligand-dependent transcription factors.¹ They modulate lipid, cholesterol, and carbohydrate metabolism and homeostasis. SR9243 is a cell-permeable LXR inverse agonist that induces LXR-corepressor interaction at nanomolar concentrations.² It reduces cancer cell viability (IC₅₀ values range from 15 to 104 nM) without cytotoxicity against non-malignant cells.² SR9243 disrupts the Warburg effect in cancer cells, suppressing the expression of glycolytic and lipogenic genes and reducing glycolytic metabolites and lipid production. It is effective *in vivo*, blocking glycolytic and lipogenic gene expression and inducing apoptosis in colon cancer xenografts without inducing weight loss in mice.²

References

1. Gabbi, C., Warner, M., and Gustafsson, J.-Å. Action mechanisms of liver X receptors. *Biochem. Biophys. Res. Commun.* **446**(3), (2014).
2. Flaveny, C.A., Griffett, K., El-Gendy, B.E.D.M., et al. Broad anti-tumor activity of a small molecule that selectively targets the Warburg effect and lipogenesis. *Cancer Cell* **28**, 42-56 (2015).

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.

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