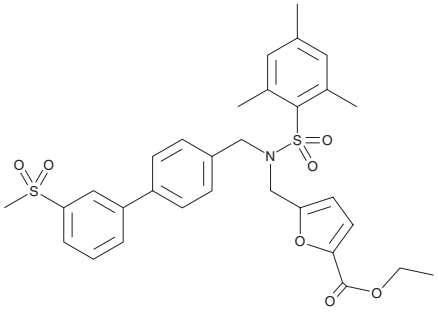
PRODUCT INFORMATION

SR9238

Item No. 18771

CAS Registry No.:	1416153-62-2
Formal Name:	5-[[[[3'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]methyl][(2,4,6-trimethylphenyl)sulfonyl]amino]methyl]-2-furancarboxylic acid, ethyl ester
MF:	$C_{31}H_{33}NO_7S_2$
FW:	595.7
Purity:	≥98%
UV/Vis.:	λ_{max}: 257 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

SR9238 is supplied as a crystalline solid. A stock solution may be made by dissolving the SR9238 in the solvent of choice, which should be purged with an inert gas. SR9238 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of SR9238 in these solvents is approximately 5 mg/ml.

SR9238 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SR9238 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. SR9238 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

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. SR9238 is an inverse agonist of the two LXR isoforms, LXRα and LXRβ (IC_{50}s = 214 and 43 nM, respectively).[2] It displays liver specificity *in vivo*, with little action at peripheral LXR. SR9238 suppresses hepatic lipogenesis, inflammation, lipid accumulation, and fibrosis in mouse models of non-alcoholic steatohepatitis.[2,3] It also reduces plasma cholesterol levels in diet-induced obese mice.[2]

References

1. Gabbi, C., Warner, M., and Gustafsson, J.-Ä. Action mechanisms of liver X receptors. *Biochem. Biophys. Res. Commun.* **446(3)**, 647-650 (2013).
2. Griffett, K., Solt, L.A., El-Dien, B., *et al.* A liver-selective LXR inverse agonist that suppresses hepatic steatosis. *ACS Chem. Biol.* **8(3)**, 559-567 (2013).
2. Griffett, K., Welch, R.D., Flaveny, C.A., *et al.* The LXR inverse agonist SR9238 suppresses fibrosis in a model of non-alcoholic steatohepatitis. *Mol. Metab.* **4(4)**, 353-357 (2015).

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