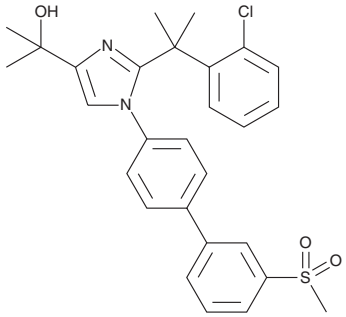
PRODUCT INFORMATION

BMS 779788

Item No. 27339

CAS Registry No.:	918348-67-1
Formal Name:	2-[1-(2-chlorophenyl)-1-methylethyl]-α,α-dimethyl-1-[3'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-1H-imidazole-4-methanol
MF:	$C_{28}H_{29}ClN_2O_3S$
FW:	509.1
Purity:	≥98%
UV/Vis.:	λ_{max}: 258 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

BMS 779788 is supplied as a crystalline solid. A stock solution may be made by dissolving the BMS 779788 in the solvent of choice, which should be purged with an inert gas. BMS 779788 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of BMS 779788 in these solvents is approximately 30 mg/ml.

Description

BMS 779788 is a partial agonist of liver X receptor α (LXRα) and LXRβ (K_is = 68 and 14 nM, respectively, in a radioligand binding assay).[1] It activates LXRα and LXRβ with EC_{50} values of 230 and 250 nM, respectively, in a transactivation assay. BMS 779788 increases expression of ATP-binding cassette transporter (ABCA1) in HeLa cells and isolated human and mouse whole blood (EC_{50}s = 33, 1,200, and 120 nM, respectively). It also increases expression of Abca1 and Abcg2 in isolated mouse blood cells but does not increase plasma or hepatic triglycerides when administered at a dose of 10 mg/kg.

References

1. Kick, E., Martin, R., Xie, Y., *et al.* Liver X receptor (LXR) partial agonists: Biaryl pyrazoles and imidazoles displaying a preference for LXRβ. *Bioorg. Med. Chem. Lett.* **25(2),** 372-377 (2015).

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