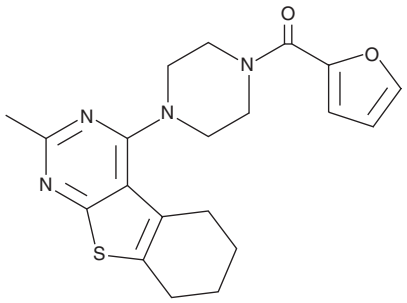
PRODUCT INFORMATION

ML-192

Item No. 15183

CAS Registry No.:	460331-61-7
Formal Name:	2-furanyl[4-(5,6,7,8-tetrahydro-2-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)-1-piperazinyl]-methanone
Synonym:	CID-1434953
MF:	$C_{20}H_{22}N_4O_2S$
FW:	382.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 235, 292 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

ML-192 is supplied as a crystalline solid. A stock solution may be made by dissolving the ML-192 in the solvent of choice, which should be purged with an inert gas. ML-192 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of ML-192 in these solvents is approximately 15, 5, and 10 mg/ml, respectively.

ML-192 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ML-192 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. ML-192 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

ML-192 is an antagonist of GPR55 (IC_{50} = 702 nM).[1] It is selective for GPR55 over the cannabinoid (CB) receptors CB_1 and CB_2, as well as GPR35 (IC_{50}s = >32 µM).

Reference

1. Heynen-Genel, S., Dahl, R., Shi, S., *et al.* Selective GPR55 antagonists: Screening for selective ligands for GPR55. *Probe Reports from the NIH Molecular Libraries Program* (2011).

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