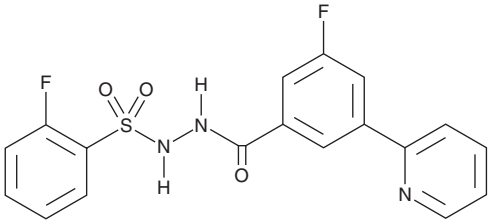
PRODUCT INFORMATION

WM-1119

Item No. 30509

CAS Registry No.:	2055397-28-7
Formal Name:	3-fluoro-5-(2-pyridinyl)-benzoic acid, 2-[(2-fluorophenyl)sulfonyl]hydrazide
MF:	$C_{18}H_{13}F_2N_3O_3S$
FW:	389.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 223, 277 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

WM-1119 is supplied as a crystalline solid. A stock solution may be made by dissolving the WM-1119 in the solvent of choice, which should be purged with an inert gas. WM-1119 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of WM-1119 in these solvents is approximately 30 mg/ml.

WM-1119 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, WM-1119 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. WM-1119 has a solubility of approximately 0.25 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

WM-1119 is an orally bioavailable inhibitor of lysine acetyltransferase 6A (KAT6A/MOZ; IC_{50} = 6.3 nM).[1] It binds to KAT6A with a K_d value of 2 nM and is selective for KAT6A over KAT5 and KAT7 (K_ds = 2,200 and 500 nM, respectively), as well as over a panel of 159 additional targets at 1 and 10 µM.[2] WM-1119 inhibits proliferation of EMRK1184 B cell lymphoma cells (IC_{50} = 0.25 µM). It reduces tumor growth and spleen weight in a murine EMRK1184 model when administered at a dose of 50 mg/kg four times per day. See the Structural Genomics Consortium (SGC) website for more information.

References

1. Priebbenow, D.L., Leaver, D.J., Nguyen, N., *et al.* Discovery of acylsulfonohydrazide-derived inhibitors of the lysine acetyltransferase, KAT6A, as potent senescence-inducing anti-cancer agents. *J. Med. Chem.* **63(9)**, 4655-4684 (2020).
2. Baell, J.B., Leaver, D.J., Hermans, S.J., *et al.* Inhibitors of histone acetyltransferases KAT6A/B induce senescence and arrest tumour growth. *Nature* **560(7717)**, 253-257 (2018).

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