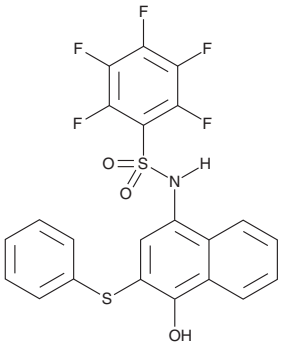
PRODUCT INFORMATION

MM-206

Item No. 22032



CAS Registry No.:	1809581-87-0
Formal Name:	2,3,4,5,6-pentafluoro-N-[4-hydroxy-3-(phenylthio)-1-naphthalenyl]-benzenesulfonamide
MF:	$C_{22}H_{12}F_5NO_3S_2$
FW:	497.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 222, 247 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

MM-206 is supplied as a crystalline solid. A stock solution may be made by dissolving the MM-206 in the solvent of choice, which should be purged with an inert gas. MM-206 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of MM-206 in these solvents is approximately 16 and 25 mg/ml, respectively.

MM-206 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MM-206 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. MM-206 has a solubility of approximately 0.11 mg/ml in a 1:8 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

MM-206 is an inhibitor of STAT3 (IC_{50} = 1.16 µM in an SPR-based competitive assay).[1] It inhibits STAT3 phosphorylation induced by granulocyte colony-stimulating factor (G-CSF) in HL-60, Kasumi-1, and MOLM-13 acute myeloid leukemia (AML) cells (IC_{50}s = 0.8, 1.9, and 1.1 µM, respectively). MM-206 induces apoptosis more potently in AML cell lines and patient-derived primary AML tumor cells than in acute lymphoblastic leukemia cells, which do not have upregulated STAT3 activity. It also slows disease progression and improves survival in an AML mouse xenograft model when administered at a dose of 30 mg/kg per day.

Reference

1. Minus, M.B., Liu, W., Vohidov, F., *et al.* Rhodium(II) proximity-labeling identifies a novel target site on STAT3 for inhibitors with potent anti-leukemia activity. *Angew Chem. Int. Ed. Engl.* **54(44)**, 13085-13089 (2015).

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