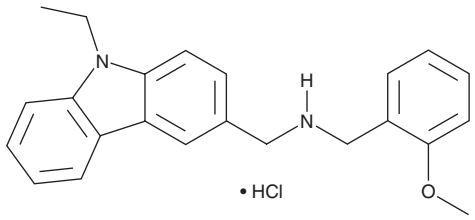
PRODUCT INFORMATION

HLCL-61 (hydrochloride)

Item No. 19897

CAS Registry No.:	1158279-20-9
Formal Name:	9-ethyl-N-[(2-methoxyphenyl)methyl]-9H-carbazole-3-methanamine, monohydrochloride
MF:	$C_{23}H_{24}N_2O \bullet HCl$
FW:	380.9
Purity:	≥98%
UV/Vis.:	λ_{max}: 239, 267, 297 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

HLCL-61 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the HLCL-61 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. HLCL-61 (hydrochloride) is soluble in organic solvents such as ethanol and DMSO. The solubility of HLCL-61 (hydrochloride) in these solvents is approximately 1 mg/ml.

Description

HLCL-61 is an inhibitor of protein arginine methyltransferase 5 (PRMT5) that inhibits the growth of multiple acute myeloid leukemia (AML) cell lines and patient-derived tumor samples (IC_{50}s = 7.21-21.46 and 3.98-8.72 µM, respectively).[1] It is selective for PRMT5, lacking activity against PRMT1, PRMT4, and PRMT7 in an enzyme assay. HLCL-61 induces myeloid differentiation of THP-1 cells and increases CD11b expression in a dose-dependent manner. It also increases expression of miR-29b mRNA resulting in a 4-fold decrease in FLT3 activity in THP-1 cells expressing an FLT3 luciferase reporter.

Reference

1. Tarighat, S.S., Santhanam, R., Frankhouser, D., *et al.* The dual epigenetic role of PRMT5 in acute myeloid leukemia: Gene activation and repression via histone arginine methylation. *Leukemia* **30(4)**, 789-799 (2016).

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