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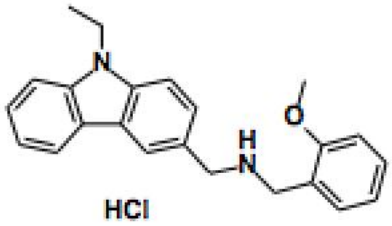
PRMT5 Inhibitor - HLCL-61

Chemical Name: 1-(9-ethyl-9H-carbazol-3-yl)-N-(2-methoxybenzyl)methanamine hydrochloride



Molecular Weight:	380.91
Formula:	$C_{23}H_{24}N_2O.HCl$
Purity:	≥98%
CAS#:	1158279-20-9
Solubility:	DMSO and EtOH up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

HLCL-61 is a potent and selective Protein arginine methyltransferase-5 (PRMT5) Inhibitor. It shows no inhibitory activity against the type I (PRMT1 and PRMT4) and type II (PRMT7) PRMT family members. HLCL-61 shows effective inhibition of symmetric arginine dimethylation (me2) of histones H3 and H4 in AML samples.Treatment of AML cell lines (MV4-11 and THP-1) and primary blasts with HLCL-61 also results in a decrease of cell viability. HLCL-61 is also effective in promoting apoptosis in MV4-11 and THP-1 cells after 48 h.

How to Use:

In vitro: HLCL-61 was used at 25-50 μM final concentration in various in vitro assays.

In vivo: n/a

Reference:

1. Tarighat SS, et al. The dual epigenetic role of PRMT5 in acute myeloid leukemia: gene activation and repression via histone arginine methylation. (2016) Leukemia. 30(4):789-99.

Products are for research use only. Not for human use.