

Product Name	: LLY-507
Synonyms	: LLY-507; LLY 507; LLY507
Cat No.	: M12702
CAS Number	: 1793053-37-8
Molecular Formula	: C ₃₆ H ₄₂ N ₆ O
Formula Weight	: 574.76
Chemical Name	: [1,1'-Biphenyl]-3-carboxamide, 5-cyano-2'-[4-[2-(3-methyl-1H-indol-1-yl)ethyl]-1-piperazinyl]-N-[3-(1-pyrrolidinyl)propyl]-
Description	: A potent, selective and cell-active inhibitor of SMYD2 (IC ₅₀ <15 nM); displays >100-fold selective over a broad range of methyltransferase and non-methyltransferase targets; inhibits SMYD2-mediated methylation of p53 Lys370 and suppresses proliferation of several esophageal, liver, and breast cancer cell lines in a dose-dependent manner (IC ₅₀ =1.5-6 uM).
Pathway	: Chromatin/Epigenetic
Target	: HMTase
Receptor	: SMYD2
Solubility	: DMSO: 15 mg/mL
SMILES	: <chem>O=C(C1=CC(C2=CC=CC=C2N3CCN(CCN4C=C(C)C5=C4C=CC=C5)CC3)=CC(C#N)=C1)NCCCN6CCCC6</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Nguyen H, et al. J Biol Chem. 2015 May 29;290(22):13641-53. 2. Olsen JB, et al. Mol Cell Proteomics. 2016 Mar;15(3):892-905.