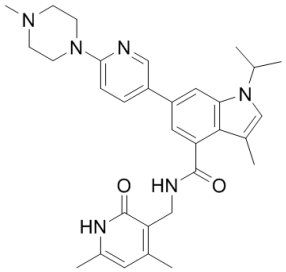
Product Name	:	GSK503
Synonyms	:	GSK-503
Cat No.	:	M11402
CAS Number	:	1346572-63-1
Molecular Formula	:	C31H38N6O2
Formula Weight	:	526.67



Chemical Name	:	1H-Indole-4-carboxamide, N-[(1,2-dihydro-4,6-dimethyl-2-oxo-3-pyridinyl)methyl]-3-methyl-1-(1-methylethyl)-6-[6-(4-methyl-1-piperazinyl)-3-pyridinyl]-
Description	:	GSK503 is a potent, specific EZH2 methyltransferase inhibitor that inhibits the methyltransferase activity of WT and mutant EZH2 with similar potency (Ki app=3-27 nM); GSK503 is highly selective for the SET domain of EZH2, >200 fold selective over EZH1 and > 4000 fold selective over other HMTases; inhibits GCB lymphoma cell lines with IC50 of 0.5-20 uM; impairs proliferation and invasiveness, accompanied by re-expression of tumour suppressor in melanoma cells; stabilizes the disease through inhibition of growth and virtually abolishes metastases formation without affecting normal melanocyte biology in melanoma mouse model.
Pathway	:	Chromatin/Epigenetic
Target	:	HMTase
Receptor	:	EZH2
Solubility	:	DMSO: ≥ 44 mg/mL
SMILES	:	O=C(C1=CC(C2=CC=C(N3CCN(C)CC3)N=C2)=CC4=C1C(C)=CN4C(C)C)NCC5=C(C)C=C(C)NC5=O
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	

1. Zingg D, et al. Nat Commun. 2015 Jan 22;6:6051.| 2. Béguelin W, et al. Cancer Cell. 2013 May 13;23(5):677-92.