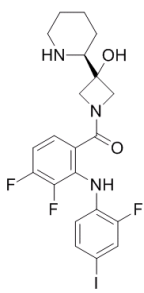


Product Name	: Cobimetinib	
Synonyms	: GDC-0973;XL-518;GDC 0973;XL 518;GDC0973;XL518	
Cat No.	: M16682	
CAS Number	: 934660-93-2	
Molecular Formula	: C ₂₁ H ₂₁ F ₃ IN ₃ O ₂	
Formula Weight	: 531.31	
Chemical Name	: Methanone, [3,4-difluoro-2-[(2-fluoro-4-iodophenyl)amino]phenyl][3-hydroxy-3-[(2S)-2-piperidinyl]-1-azetidinyl]-	
Description	: Cobimetinib (GDC-0973, XL-518) is a potent, selective MEK inhibitor with IC ₅₀ of 4.2 nM for MEK1; shows excellent selectivity against mTOR, DNA-dependent protein kinase (DNA-PK), and a panel of more than 228 kinases; shows strong cellular potency in a broad panel of tumor types, particularly in BRAF or KRAS mutant cancer cell lines, triggers robust apoptosis and tumor growth inhibition in vivo combined with PI3K inhibitor GDC-0941. Skin Cancer Approved	
Pathway	: MAPK/ERK Signaling	
Target	: MEK	
Receptor	: MEK1	
Solubility	: 10 mM in DMSO	
SMILES	: <chem>C1CCN[C@@H](C1)C2CN(C2)C(=O)C3=C(C(=C(C=C3)F)F)NC4=C(C(=C(C=C4)I)F)O</chem>	
Storage	: (-20°C)	
Stability	: ≥ 2 years	
Reference	:	

1. Hoeflich KP, et al. Cancer Res. 2012 Jan 1;72(1):210-9. | 2. Wong H, et al. Clin Cancer Res. 2012 Jun 1;18(11):3090-9. | 3. Rice KD, et al. ACS Med Chem Lett. 2012 Apr 9;3(5):416-21. | 4. Ribas A, et al. Lancet Oncol. 2014 Aug;15(9):954-65.