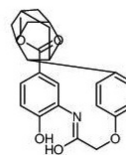


Product Name	: LW6
Synonyms	: CAY10585; CAY-10585; CAY 10585; LW6
Cat No.	: M17673
CAS Number	: 934593-90-5
Molecular Formula	: C ₂₆ H ₂₉ NO ₅
Formula Weight	: 435.52
Chemical Name	: methyl 3-(2-(4-(adamantan-1-yl)phenoxy)acetamido)-4-hydroxybenzoate



Description	: CAY10585, also known as LW6, was first identified and reported by a group of scientists from Korea. LW6 was found to inhibit the accumulation of HIF-1α. LW6 decreased HIF-1α protein expression without affecting HIF-1β expression. It was further found that LW6 promoted the degradation of wild type HIF-1α, but not of a DM-HIF-1α with modifications of P402A and P564A, at hydroxylation sites in the oxygen-dependent degradation domain (ODDD). LW6 did not affect the activity of prolyl hydroxylase (PHD), but induced the expression of von Hippel-Lindau (VHL), which interacts with prolyl-hydroxylated HIF-1α for proteasomal degradation. In the presence of LW6, knockdown of VHL did not abolish HIF-1α protein accumulation, indicating that LW6 degraded HIF-1α via regulation of VHL expression. In mice carrying xenografts of human colon cancer HCT116 cells, LW6 demonstrated strong anti-tumor efficacy in vivo and caused a decrease in HIF-1α expression in frozen-tissue immunohistochemical staining. These data suggest that LW6 may be valuable in the development of a HIF-1α inhibitor for cancer treatment.
Pathway	: Others
Target	: Other Targets
Receptor	: HIF-1
Solubility	: DMSO : ≥ 33 mg/mL; 75.77 mM
SMILES	: <chem>CC(=O)OC1=CC=C(C(=O)C(NC(COC2=CC=C(C3(C4)CC5CC4CC(C5)C3)C=C2)O)=C1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Naik R, et al. J Med Chem. 2014 Nov 26;57(22):9522-38.