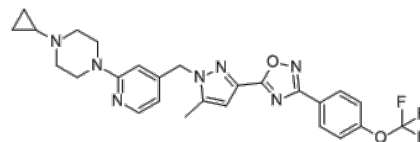


**Product Name** : BAY 87-2243  
**Cat. No.** : PC-20172  
**CAS No.** : 1227158-85-1  
**Molecular Formula** : C<sub>26</sub>H<sub>26</sub>F<sub>3</sub>N<sub>7</sub>O<sub>2</sub>  
**Molecular Weight** : 525.54  
**Target** : HIF/HIF Prolyl-hydroxylase  
**Solubility** : 10 mM in DMSO



## Biological Activity

BAY 87-2243 (BAY87-2243) is a highly potent, selective inhibitor of **HIF-1**, inhibits hypoxia-induced gene activation (IC<sub>50</sub>=0.7 nM), directly inhibits **mitochondrial complex I**.

BAY 87-2243 inhibits hypoxic induction of the HIF target gene CA9 on protein level in HCT116luc cells with IC<sub>50</sub> of 2 nM.

BAY 87-2243 inhibits hypoxia-inducible factor (HIF-1α) and HIF-2α protein accumulation in hypoxic H460 cells H460 under hypoxia, but has no effect on HIF-1α protein levels induced by hypoxia mimetics and has no effect on prolyl hydroxylase 2 (PHD2) activity.

BAY 87-2243 suppresses HIF target gene expression in hypoxic lung cancer cells.

BAY 87-2243 inhibits mitochondrial oxygen consumption with IC<sub>50</sub> of 10 nM.

BAY 87-2243 potently inhibits cell proliferation of H460 cells with EC<sub>50</sub> of 3 nM.

BAY 87-2243 reduces tumor weight, HIF-1α protein, and HIF-1 target gene expression levels in H460 xenograft mouse model.

## References

Ellinghaus P, et al. *Cancer Med.* 2013 Oct;2(5):611-24.

Chang E, et al. *Clin Cancer Res.* 2015 Jan 15;21(2):335-46.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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