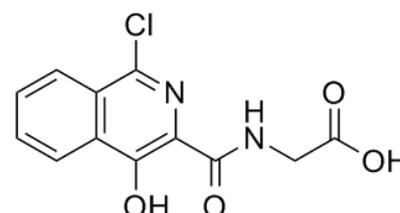


**Product Name** : FG-2216  
**Cat. No.** : PC-44597  
**CAS No.** : 223387-75-5  
**Molecular Formula** : C<sub>12</sub>H<sub>9</sub>ClN<sub>2</sub>O<sub>4</sub>  
**Molecular Weight** : 280.66  
**Target** : HIF/HIF Prolyl-hydroxylase  
**Solubility** : DMSO: ≥ 31 mg/mL



## Biological Activity

FG-2216 (YM-311, IOX3) is a potent, selective small molecule inhibitor of **HIF prolyl hydroxylase** (HIF-PHD) with IC<sub>50</sub> of 3.9 nM (PHD2).

FG-2216 decreases protein expression of DNA/RNA demethylase FTO (in C2C12 cells) and reduces maximal respiration rate in vitro.

FG-2216 up-regulates HIF-1 $\alpha$  and increases erythropoietin expression in mice, also significantly reduces bone mineral density and content and alter adipose tissue distribution in mice.

FG-2216 is orally bioavailable and induced significant and reversible Epo induction in vivo.

## References

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Hsieh MM, et al. *Blood*. 2007 Sep 15;110(6):2140-7.

Aik W, et al. *Nucleic Acids Res*. 2014 Apr;42(7):4741-54.

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

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