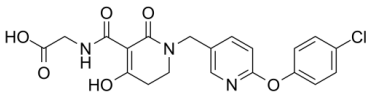
Data Sheet

Product Name:	TP0463518
Cat. No.:	CS-0043483
CAS No.:	1558021-37-6
Molecular Formula:	C20H18ClN3O6
Molecular Weight:	431.83
Target:	HIF/HIF Prolyl-Hydroxylase
Pathway:	Metabolic Enzyme/Protease
Solubility:	DMSO : ≥ 125 mg/mL (289.47 mM)



BIOLOGICAL ACTIVITY:

TP0463518 is a potent hypoxia-inducible factor prolyl hydroxylases (**PHD**s) inhibitor with a K_i value of 5.3 nM for **human PHD2**. TP0463518 also inhibits **human PHD1/PHD3** with IC_{50}s of 18 and 63 nM as well as **monkey PHD2** with an IC_{50} value of 22 nM[1].

References:

[1]. Kato S, et al. TP0463518, a novel inhibitor for hypoxia-inducible factor prolyl hydroxylases, increases erythropoietin in rodents and monkeys with a good pharmacokinetics-pharmacodynamics correlation. Eur J Pharmacol. 2018 Nov 5;838:138-144.

CAIndexNames:

Glycine, N-[[1-[[6-(4-chlorophenoxy)-3-pyridinyl]methyl]-1,2,5,6-tetrahydro-4-hydroxy-2-oxo-3-pyridinyl]carbonyl]-

SMILES:

ClC(C=C1)=CC=C1OC2=NC=C(CN3C(C(C(NCC(O)=O)=O)=C(O)CC3)=O)C=C2

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