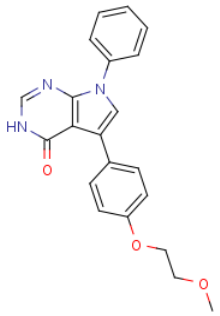
Name: DMX-5084 Cat#:EX-A3537

Structure



Chemical Name	4H-Pyrrolo[2,3-d]pyrimidin-4-one, 3,7-dihydro-5-[4-(2-methoxyethoxy) phenyl]-7-phenyl-

Molecular Weight	361.39	Storage	2 years -20°C powder 6 months -80°C in solvent
Formula	C21H19N3O3		
CAS No.	2306178-56-1	Synonyms	N/A

Solubility (25°C) *	In vitro	DMSO	72 mg/mL (199.23 mM)
		Ethanol	1.5 mg/mL (4.15 mM)
		Water	Insoluble
	In vivo （should be freshly prepared each time）		

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Selleck tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.

Preparing Stock Solutions:

Mass / Volume / Concentration	1 mg	5 mg	10 mg
1 mM	2.7671 mL	13.8355 mL	27.6709 mL
5 mM	0.5534 mL	2.7671 mL	5.5342 mL
10 mM	0.2767 mL	1.3835 mL	2.7671 mL
50 mM	0.0553 mL	0.2767 mL	0.5534 mL

Biological Activities:

Description	DMX-5804 is a potent, orally active and selective inhibitor of Mitogen-activated protein kinase kinase kinase kinase-4 (MAP4K4) with IC50 of 3 nM for human MAP4K4. DMX-5804 is more potent on human MAP4K4 with pIC50 of 8.55 than MINK1/MAP4K6 and TNIK/MAP4K7 with pIC50 of 8.18 and 7.96, respectively.[1]

Targets	human MAP4K4[1] (Cell-free assay)	human MAP4K4[1] (Cell-free assay)	MINK1/MAP4K6[1] (Cell-free assay)	TNIK/MAP4K7[1] (Cell-free assay)
	8.55(pIC50)	3 nM	8.18(pIC50)	7.96(pIC50)
In vitro				
In vivo				
References	[1] Lorna R Fiedler, et al. Cell Stem Cell. 2019 Apr 4;24(4):579-591.e12.			