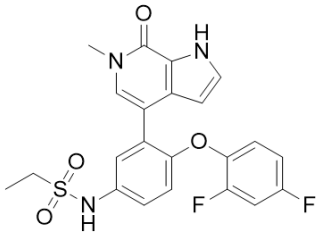
Mivebresib

Cat. No.:	HY-100015
CAS No.:	1445993-26-9
Molecular Formula:	$C_{22}H_{19}F_2N_3O_4S$
Molecular Weight:	459.47
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (**217.64 mM;** Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1764 mL	10.8821 mL	21.7642 mL
	5 mM	0.4353 mL	2.1764 mL	4.3528 mL
	10 mM	0.2176 mL	1.0882 mL	2.1764 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
   Solubility: ≥ 2.5 mg/mL (5.44 mM); Clear solution
2. Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
   Solubility: ≥ 2.5 mg/mL (5.44 mM); Clear solution
3. Add each solvent one by one: **10% DMSO >> 90% corn oil**
   Solubility: ≥ 2.5 mg/mL (5.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Mivebresib is a potent and orally available bromodomain and extraterminal domain (**BET**) bromodomain inhibitor. Mivebresib binds to BRD4 with a K_i of 1.5 nM.

In Vitro

Mivebresib inhibit DHT-stimulated transcription of AR target genes without significant effect on AR protein expression. In addition to blocking the transcription activation downstream of AR, Mivebresib is also a potent inhibitor of MYC and the TMPRSS2-ETS fusion proteins[1].

CUSTOMER VALIDATION

- **Cell Death Dis**. 2019 Jul 19;10(8):557.

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REFERENCES

[1]. EJ Faivre et al. Abstract 4694: ABBV-075, a novel BET family inhibitor, disrupts critical transcription programs that drive prostate cancer growth to induce potent anti-tumor activity in vitro and in vivo

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