

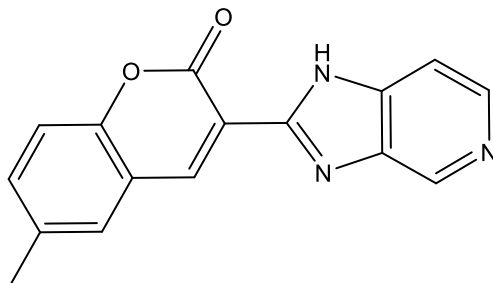
Catalog # 10-4039

iJMJD6

CAS# 899548-78-8

3-(3H-Imidazo[4,5-c]pyridine-2-yl)-6-methylchromen-2-one; WL12

Lot # FBA8031



iJMJD6 is an inhibitor of the arginine demethylase JMJD6 ($IC_{50} = 220$ nM) with selectivity over other JmjC domain-containing proteins.¹ Exhibited antiproliferative effects in HeLa ($EC_{50} = 1.49$ μ M), SMCC7721 ($EC_{50} = 9.37$ μ M), and MCF7 ($EC_{50} = 9.53$ μ M) cells.² Displayed no cytotoxicity towards normal cervical, liver, and breast epithelial cells. iJMJD6 significantly suppressed tumor growth in a HeLa, SMCC7721, MCF7, MDA-MB-231, U87, and HCT116 mouse xenograft models.²

- 1) Ran *et al.* (2019), *In Silico Discovery of JMJD6 Inhibitors for Cancer Treatment*; ACS Med. Chem. Lett. **10** 1609
- 2) Xiao *et al.* (2022), *A specific JMJD6 inhibitor potently suppresses multiple types of cancers both in vitro and in vivo*; Proc. Natl. Acad. Sci. USA **119** e2200753119

PHYSICAL DATA

Molecular Weight:	277.28
Molecular Formula:	C ₁₆ H ₁₁ N ₃ O ₂
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (12 mg/mL with warming)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.