

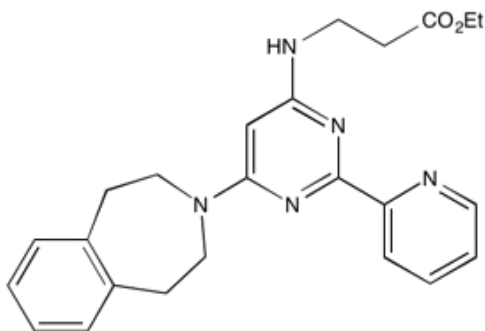
Catalog # 10-1394

GSK J4

1373423-53-0

N-[2-(2-Pyridinyl)-6-(1,2,4,5-tetrahydro-3H-3-benzazepin-3-yl)-4-pyrimidinyl]-β-alanine ethyl ester

Lot # X106319



Histone demethylase JMJD3/UTX inhibitor. Inhibits demethylation of histone H3K27. Reduces LPS-induced proinflammatory cytokine production in primary human macrophages ($IC_{50} = 9 \mu M$ for the inhibition of TNF α release). Cell permeable, ethyl ester of GSK J1¹. Rescues newborn pups from embryonic lethality in BRAF knockin mice which recapitulate major features of RASopathies².

- 1) Kruidenier *et al.* (2012), *Selective jumonji H3K27 demethylase inhibitor modulates the proinflammatory macrophage response*; *Nature*, **488** 404
- 2) Inoue *et al.* (2014) *New Braf knockin mice provide a pathogenic mechanism of developmental defects and therapeutic approach in cardio-facio-cutaneous syndrome*; *Hum. Mol. Genet.*, **July 17**, Epub ahead of print

PHYSICAL DATA

Molecular Weight:	417.48
Molecular Formula:	C ₂₄ H ₂₇ N ₅ O ₂
Purity:	99% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml) or Ethanol (up to 40 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol 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.