

Product Datasheet

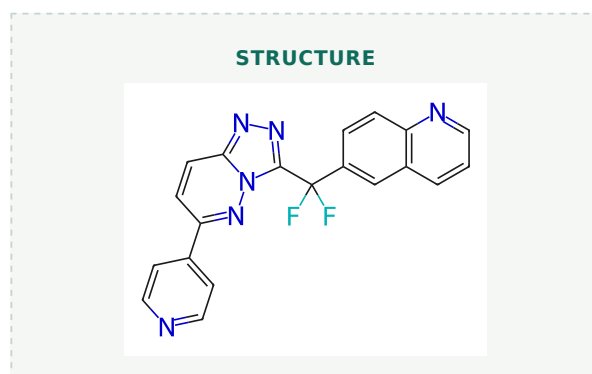
JNJ-38877618

Catalog No. **BP-02371** · CAS **943540-74-7** · Form **free base** · Physical state **solid** · Color **white to off-white** · Version **1.0** · Revision **2026-09-11**

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Target c-Met/HGFR	Research area Cancer
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Molecular formula	C₂₀H₁₂F₂N₆
Molecular weight	374.3463



DESCRIPTION

JNJ-38877618 is a potent, highly selective, orally bioavailable Met kinase inhibitor with IC₅₀s of 2 and 3 nM for wild type and mutant Met, respectively.

BIOLOGICAL ACTIVITY

In Vitro

OMO-1 (formerly JNJ-38877618), is a potent, highly selective, orally bioavailable Met kinase inhibitor with nM binding affinity (K_d=1.4 nM) and enzyme inhibitory activity against wt and M1268T mutant Met (2 and 3 nM IC₅₀). Met inhibitory effects are assessed in proliferation, colony formation and motility assays. JNJ-38877618 displays nM potency against Met Ampl/mutant and therapy resistant models

In Vivo

JNJ-38877618 induces complete inhibition of tumor growth in 3 models: the SNU5 Met amp gastric, U87-MG HGF autocrine glioblastoma and Hs746T Met exon 14 skipping mutant gastric cancer. JNJ-38877618 induces regression of large Met amplified EBC-1 SqNSCLC where JNJ-38877618 leads to dose- and time-dependent inhibition of Met kinase activation, with the duration of target shut down considerably exceeding plasma exposure times. Combination treatments are well tolerated and improved EGFR targeted therapy

SOLUBILITY

Soluble in DMSO

In vitro DMSO : 5 mg/mL

REFERENCES

[1]. Libouban M, et al. OMO-1, a potent, highly selective, orally bioavailable, Met kinase inhibitor with a favorable preclinical toxicity profile, shows both monotherapy activity, against Met pathway-driven tumors, and EGFR TKI

combination activity in acquire

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