

# JNJ0966

**Catalog No: tcsc0027987**



## Available Sizes

**Size:** 1mg

**Size:** 5mg

**Size:** 10mg

**Size:** 25mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

315705-75-0

**Formula:**

$C_{16}H_{16}N_4O_2S_2$

**Pathway:**

Metabolic Enzyme/Protease

**Target:**

MMP

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 160 mg/mL (443.89 mM; Need ultrasonic and warming)

**Observed Molecular Weight:**

360.45

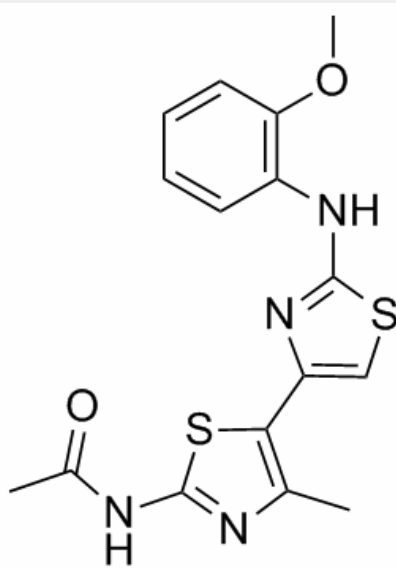
## Product Description

JNJ0966 is a highly selective **MMP-9 zymogen** inhibitor with an **IC<sub>50</sub>** of 440 nM.

IC50 & Target: IC50: 440 nM (MMP-9 zymogen)<sup>[1]</sup>

**In Vitro:** JNJ0966 is a highly selective MMP-9 zymogen inhibitor with an IC<sub>50</sub> of 440 nM. The activations of proMMP-1, proMMP-2, and proMMP-3 are not significantly different in the presence or absence of 10 μM JNJ0966, whereas proMMP-9 activation by trypsin is significantly attenuated by JNJ0966. The addition of JNJ0966 to the reaction results in a significant reduction in fully processed MMP-9 and an apparent accumulation of the intermediate species<sup>[1]</sup>.

**In Vivo:** The exposures of JNJ0966 are dose-dependent, with plasma and brain concentrations for the 10-mg/kg dose of 77.5±31.1 ng/mL (215 nM) and 481.6±162.5 ng/g (~1336 nM), respectively, whereas the 30-mg/kg dose achieves 293.6±118.4 ng/mL (815 nM) in plasma and 1394.0±649.1 ng/g (~3867 nM) in brain. JNJ0966 is preferentially partitioned in brain, with brain/plasma ratios of 6.2 for the 10-mg/kg dose and 4.7 for the 30-mg/kg dose<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!