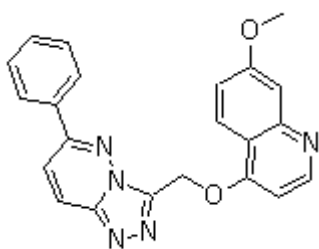


## Product Introduction

### AMG-208

AMG 208 is a highly selective c-Met inhibitor with IC<sub>50</sub> of 9 nM. Phase 1.

#### Technical Data:

<b>Molecular Weight (MW):</b>	383.4	
<b>Formula:</b>	C <sub>22</sub> H <sub>17</sub> N <sub>5</sub> O <sub>2</sub>	
<b>Solubility (25 °C)</b>	DMSO 0.25 mg/mL	
<b>* &lt;1 mg/ml means slightly soluble or insoluble:</b>	Water <1 mg/mL	
	Ethanol <1 mg/mL	
<b>Purity:</b>	>98%	
<b>Storage:</b>	3 years -20°C Powder 6 months-80°C in DMSO	
<b>CAS No.:</b>	1002304-34-8	

#### Biological Activity

AMG-208 shows the potent inhibition of kinase c-Met activity with IC<sub>50</sub> of 9 nM in a cell-free assay.

Besides, AMG-208 treatment also leads to the inhibition of HGF-mediated c-Met phosphorylation in PC3

cells with IC<sub>50</sub> of 46 nM. [1] Incubation of AMG-208 with rat and human liver microsomes in the presence

of NADPH qualitatively yields C6-phenylarene oxidation products as the major metabolites. [1]

Pre-incubation of AMG-208 with human liver microsomes for 30 minutes shows a potent time-dependent

inhibition for CYP3A4 metabolic activity with IC<sub>50</sub> of 4.1 μM, which is an eightfold decrease relative to the

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IC<sub>50</sub> (32  $\mu$ M) without preincubation. [2] AMG-208 is identified to be a c-MET and RON dual selective inhibitor. [3]

In male Sprague–Dawley rats, AMG-208 (0.5 mg/kg i.v.) shows a high bioavailability with CI of 0.37 L/h/kg, V<sub>ss</sub> of 0.38 L/kg and T<sub>1/2</sub> of 1 hour, while AMG-208 (2 mg/kg i.v.) shows a bioavailability with AUC<sub>0 $\rightarrow$  $\infty$</sub>  of 2517 ng·h/mL and F of 43%, respectively. [1]

## References

[1] Albrecht BK, et al. J Med Chem. 2008, 51(10), 2879-2882.

[2] Boezio AA, et al. Bioorg Med Chem Lett. 2009, 19(22), 6307-6312.

[3] Liu X, et al. Trends Mol Med. 2010,16(1), 37-45.

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