

Product Specification Sheet

PF-04217903 **Product Name:**

Catalog Number: C7042

Technical information:

 $C_{20}H_{20}N_8O_4S$ Chemical Formula:

> CAS #: 956906-93-7

Molecular Weight: 468.49

> Purity: > 98%

Appearance: White solid

> Solubility: Soluble in DMSO up to 15 mM

Chemical Name: 2-(4-(3-(quinolin-6-ylmethyl)-3H-[1,2,3]triazolo[4,5-b]pyrazin-5-yl)-1H-pyrazol-1-yl)ethanol

mesylate

Storage: Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months

under proper storage condition.

Handling: • To make 10 mM stock solution, add 0.213mL of DMSO for each mg of PF-04217903.

• For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum

PF-04217903

sample recovery.

PF-04217903 is a triazolopyrazine-based, ATP-competitive inhibitor of c-Met with Ki and cellular **Biological Activity:**

IC50 potency of 4 nM and 5 nM, respectively. [1] In a broad panell of over 200 kinases, PF-04217903 showed >1000-fold selectivity for c-Met. For c-Met mutations, PF-04217903 exhibited activities of 6.4 nM, 6.7 nM, and 3.1 nM for endogenous c-Met-R988C, endogenous C-Met-T1010I,

and entineered c-Met-H1094R, respectively. [3]

Additionally, PF-04217903 inhibited proliferation, cell survival, migration/invasion in METamplified cell lines in vitro and was efficacious in tumor models with either MET gene amplification or hepatocyte growth factor (HGF)/c-Met autocrine loop in vivo. [2, 4] Efficacy was dosedependent and correlated with inhibition of c-Met phosphorylation and downstream signaling.

Due to its exquisite selectivity profile, PF-04217903 can be considered as a powerful tool in probing c-Met catalytic activity in preclinical models for cancer progression.

Reference: 1. Cui et al., Discovery of a novel class of exquisitely selective mesenchymal-epithelial transition factor (c-MET) protein kinase inhibitors and identification of the clinical candidate 2-(4-(1-(quinolin-6-ylmethyl)-1H-[1,2,3]triazolo[4,5-b]pyrazin-6-yl)-1H-pyrazol-1-yl)ethanol (PF-04217903) for the treatment of cancer. J. Med. Chem. 2012, 55, 8091-8109. Pubmed ID: 22924734

2. Zou et al., Sensitivity of selected human tumor models to PF-04217903, a novel selective c-Met kinase inhibitor. Mol. Cancer Ther. 2012, 11, 1036-1047. Pubmed ID: 22389468

3. Timofeevski et al., Enzymatic characterization of c-Met receptor tyrosine kinase oncogenic mutants and kinetic studies with aminopyridine and triazolopyrazine inhibitors. Biochemistry, 2009, 48, 5339-5349. Pubmed ID: 19459657

4. Shojaei et al., HGF/c-Met acts as an alternative angiogenic pathway in sunitinib-resistant tumors. Cancer Res. 2010, 70, 10090-10100. Pubmed ID: 20952508

To reorder: http://www.cellagentech.com/PF-04217903/

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.