



Catalog # 10-2547

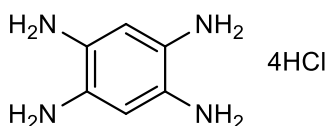
FAK Inhibitor 14

4506-66-5

Y15

1,2,4,5-Benzenetetramine tetrahydrochloride

Lot # X106446



Selective focal adhesion kinase (FAK) inhibitor that displays no significant activity at a range of other kinases including EGFR, PDGFR and IGF-RI. Prevents FAK autophosphorylation at Y397 (IC₅₀ = 1 μ M), promotes cell detachment and inhibits cell adhesion *in vitro*. Exhibits antiproliferative activity in a variety of human tumor cell lines *in vitro* and in breast cancer cells *in vivo*. Induces regression of pancreatic tumors² and glioblastoma³. Displays antiangiogenic activity⁴.

- 1) Golubovskaya et al. (2008), *A small molecule inhibitor, 1,2,4,5-benzenetetraamine tetrahydrochloride, targeting the y397 site of focal adhesion kinase decreases tumor growth*; J. Med. Chem., **51** 7405
- 2) Hochwald et al. (2009), *A novel small molecule inhibitor of FAK decreases growth of human pancreatic cancer*; Cell Cycle, **8** 2435
- 3) Golubovskaya et al. (2013), *Pharmacologic blockade of FAK autophosphorylation decreases human glioblastoma tumor growth and synergizes with temozolomide*; Mol. Cancer Ther., **12** 162
- 4) Cabrita et al. (2011), *Focal Adhesion kinase inhibitors are potent anti-angiogenic agents*; Mol. Oncol., **5** 517

PHYSICAL DATA

Molecular Weight:	284.02
Molecular Formula:	C ₆ H ₁₀ N ₄ · 4HCl
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml) or Water (up to 15 mg/ml)
Physical Description:	Grey solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

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