

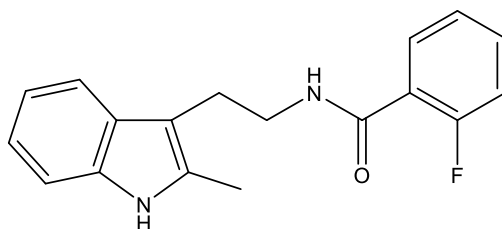
Catalog # 10-3346

CK-666

CAS# 442633-00-3

2-Fluoro-N-[2-methyl-1H-indol-3-yl]ethyl]benzamide

Lot # S105140



A potent, selective and reversible inhibitor of ARP2/3 complex (actin related proteins 2 and 3) with an $IC_{50} = 4 \mu M$ for human ARP2/3.¹ Blocks actin nucleation and radically alters lamellipodial actin architecture, suspended cell shape and the cell spreading process.² CK-666 attenuates BBB dysfunction induced by methamphetamine³. It is an important new tool for studying actin assembly and the diverse range of actin-related processes in normal⁴ and pathophysiology⁵.

- 1) Nolan *et al.* (2009), *Characterization of two classes of small molecule inhibitors of Arp2/3 complex*; Nature, **460** 1031
- 2) Henson *et al.* (2015), *Arp2/3 complex inhibition radically alters lamellipodial actin architecture, suspended cell shape, and the cell spreading process*; Mol. Boil. Cell, **26** 887
- 3) Park *et al.* (2013), *Methamphetamine-induced occluding endocytosis is mediated by the Arp2/3 complex-regulated actin rearrangement*; J. Biol. Chem., **288** 33324
- 4) Sun *et al.* (2013), *Actin nucleator Arp2/3 complex is essential for mouse preimplantation embryo development*; Reprod. Fertil. Dev., **25** 617
- 5) Efremov *et al.* (2015), *Distinct impact of targeted actin cytoskeleton reorganization on mechanical properties of normal and malignant cells*; Biochim. Biophys. Acta., **1853 (11PtB)** 3117

PHYSICAL DATA

Molecular Weight:	296.34
Molecular Formula:	C ₁₈ H ₁₇ FN ₂ O
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 45 mg/ml) or Ethanol (up to 30 mg/ml)
Physical Description:	Cream-colored solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.