

Catalog # 10-3090

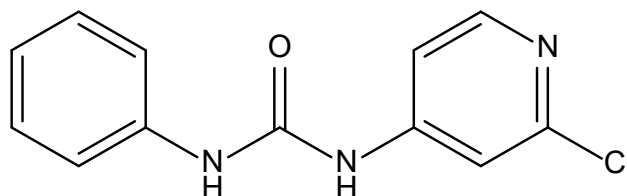
Forchlorfenuron

CAS# 68157-60-8

1-(2-Chloro-4-pyridyl)-3-phenylurea

FCF; KT-30; CPPU

Lot # X106225



Reversibly perturbs mammalian septin assembly, organization and function. Has no effect on actin or tubulin polymerization.^{1,2} FCF induces effects on mitosis and migration which phenocopy the effects induced by septin depletion using siRNA.¹ A useful tool for exploring the physiological role of septin and its complexes.^{3,4}

- 1) Hu et al. (2008), Forchlorfenuron alters mammalian septin assembly, organization, and dynamics; J. Biol. Chem., 283 29563
- 2) DeMay et al. (2010), Cellular requirements for the small molecule forchlorfenuron to stabilize the septin cytoskeleton; Cytoskeleton, 67 383
- 3) Wasik et al. (2012), Septin 7 forms a complex with CD2AP and nephrin and regulates glucose transporter trafficking; Mol. Biol. Cell, 23 3370
- 4) Vardi-Oknin et al. (2013), Forchlorfenuron disrupts SEPT9_{i1} filaments and inhibits HIF-1; PLoS One, 8(8) e73179

PHYSICAL DATA

Molecular Weight:	247.68
Molecular Formula:	C ₁₂ H ₁₀ ClN ₃ O
Purity:	98% by HPLC NMR: (Conforms)
Solubility:	Soluble in DMSO (75 mg/mL).
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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