

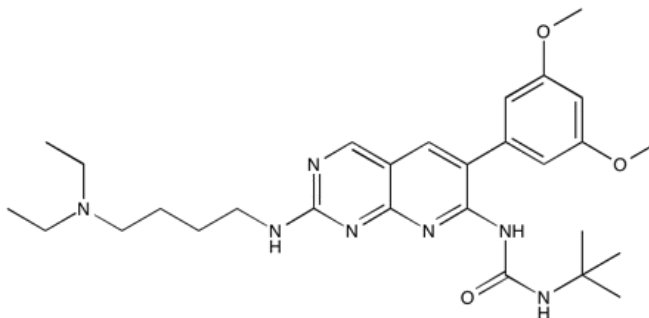
Catalog # 10-4505

PD173074

CAS# 219580-11-7

1-t-Butyl-3-(6-(3,5-dimethoxyphenyl)-2-(4-diethylaminobutylamino)-pyrido[2,3-d]pyrimidin-7-yl)urea

Lot # FBA1059



Inhibitor of FGFR tyrosine kinase, and to a lesser extent VEGFR¹ (IC₅₀ values are 5 nM, 22.5 nM and 100 nM for FGFR1, FGFR3 and VEGFR respectively). Inhibition of FGFR promotes stem cell self renewal.^{2,3}

- 1) Bansal *et al.* (2003), *Specific inhibitor of FGF receptor signaling: FGF-2 mediated effects on proliferation, differentiation and MAPK activation are inhibited by PD173074 in oligodendrocyte-lineage cells*; J. Neurosci. Res., **74** 486
- 2) Kim *et al.* (2012), *Regulation of autocrine fibroblast growth factor-2 signaling by perfusion flow in 3D human mesenchymal stem cell constructs*; Biotechnol. Prog., **28** 1384
- 3) Zaragosi *et al.* (2006), *Autocrine fibroblast growth factor 2 signaling is critical for self renewal of human multipotent adipose-derived stem cells*; Stem Cells, **24** 2412

PHYSICAL DATA

Molecular Weight:	523.67
Molecular Formula:	C ₂₈ H ₄₁ N ₇ O ₃
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20 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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