Catalog # 10-2129

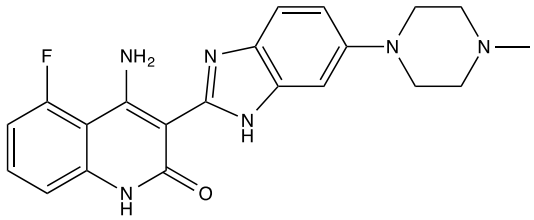
Dovitinib

CAS# 405169-16-6

TKI-258, CHIR258

4-Amino-5-fluoro-3-[5-(4-methylpiperazin-1-yl)-1H-benzimidazol-2-yl]quinolin-2(1H)-one

Lot # FBM2112



Potent kinase inhibitor. Inhibits FLT3 (IC_{50} = 1 nM), c-KIT (IC_{50} = 2 nM), FGFR (IC_{50} = 8 nM), VEGFR1/2/3 (IC_{50} = 10 nM), PDGFRβ (IC_{50} = 27 nM), and CSF-1R (IC_{50} = 36 nM).[1] Active in cell culture and in whole animals. Selectively blocks the growth B9 cells transformed by wild type, or activated mutant FGFR3. Induces apoptosis, or sensitizes cells to induction of apoptosis by other means in a variety of cancer cell lines.

1) Lee *et al*. (2005), *In vivo target modulation and biological activity of CHIR-258, a multitargeted growth factor receptor kinase inhibitor, in colon cancer models*; Clin. Cancer Res., **11** 3633
2) Xin *et al*. (2006), *CHIR-258 is efficacious in a newly developed fibroblast growth factor receptor 3-expressing orthotopic multiple myeloma model in mice*; Clin. Cancer Res., **12** 4908

PHYSICAL DATA

Molecular Weight:	392.43
Molecular Formula:	$C_{21}H_{21}FN_6O$
Purity:	99% by TLC 99% by HPLC
Solubility:	DMSO (up to 30 mg/ml)
Physical Description:	Yellow-green solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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