



Catalog # 10-4752

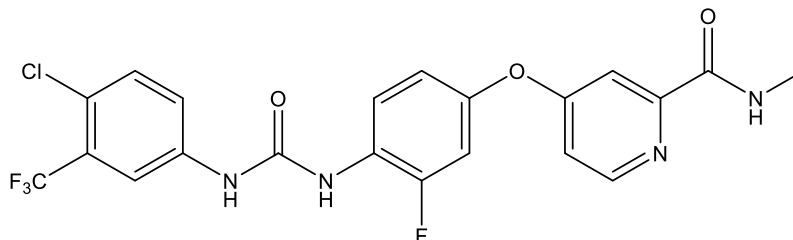
Regorafenib

CAS# 755037-03-7

4-[4-[[[4-Chloro-3-(trifluoromethyl)phenyl]amino]carbonyl]amino]-3-fluorophenoxy]-N-methyl-2-pyridinecarboxamide;

BAY 73-4506

Lot # X107431



A multi-kinase inhibitor related to sorafenib¹. Inhibits c-Raf, B-Raf, VEGFR1, VEGFR2, VEGFR3, Tie2, PDGFRb, FGFR1, c-Kit, and RET with IC₅₀s=2.5, 28, 13, 4.2, 46, 311, 22, 202, 7 and 1.5 nM respectively.^{1,2} Enhances SHP-1 activity.³ Also inhibits soluble epoxide hydrolase (IC₅₀=0.5 nM).⁴ Clinically useful anticancer agent.

- 1) Wilhelm *et al.* (2011), *Regorafenib (BAY 73-4506): a new oral multikinase inhibitor of angiogenic, stromal and oncogenic receptor tyrosine kinases with potent preclinical antitumor activity*; Int. J. Med. Cancer **129** 245
- 2) Uitdehaag *et al.* (2014), *Comparison of the cancer gene targeting and biochemical selectivities of all targeted kinase inhibitors approved for clinical use*; PLoS One **9** e92146
- 3) Fan *et al.* (2014), *SHP-1 is a target of regorafenib in colorectal cancer*; Oncotarget **5** 6243
- 4) Hwang *et al.* (2013), *Synthesis and biological evaluation of sorafenib- and regorafenib-like sEH inhibitors*; Bioorg. Med. Chem. Lett. **23** 3732

PHYSICAL DATA

Molecular Weight: 482.82
Molecular Formula: C₂₁H₁₅ClF₄N₄O₃
Purity: >98% by HPLC
NMR: (Conforms)
Solubility: DMSO (50 mg/ml)
Physical Description: Off-white 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.

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

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