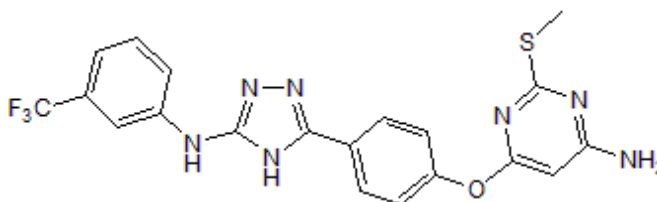


Product Name: KG 5 **Catalog No.:** 5260 **Batch No.:** 1
CAS Number: 877874-85-6
IUPAC Name: 2-(Methylthio)-6-[4-[5-[[3-(trifluoromethyl)phenyl]amino]-1H-1,2,4-triazol-3-yl]phenoxy]-4-pyrimidinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₆F₃N₇OS.H₂O
Batch Molecular Weight: 477.47
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (DCM/MeOH/NH₄OH 9/1/5 drops)
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.31	3.8	20.53
Found	50.34	3.51	20.4

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

PDGFR β and B-Raf allosteric inhibitor. Also inhibits c-Raf, FLT3 and KIT. Disrupts blood vessel formation in zebrafish embryos and inhibits angiogenesis in a mouse angiogenesis model. Inhibits growth of renal and pancreatic tumors in mice. Also arrests cells in prometaphase. Orally available.

Physical and Chemical Properties:

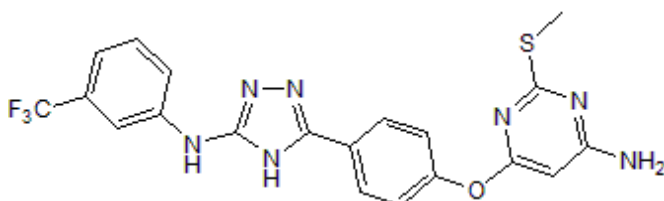
Batch Molecular Formula: C₂₀H₁₆F₃N₇OS.H₂O

Batch Molecular Weight: 477.47

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Murphy *et al* (2010) Disruption of angiogenesis and tumor growth with an orally active drug that stabilizes the inactive state of PDGFRbeta/B-RAF. *Proc.Natl.Acad.Sci.U.S.A.* **107** 4299. PMID: 20154271 .

Mielgo *et al* (2011) A MEK-independent role for CRAF in mitosis and tumor progression. *Nat.Med.* **17** (1641). PMID: 22081024.

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