

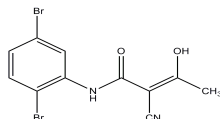
PRODUCT: LFM-A13

ALTERNATE NAME: (2Z) -2-Cyano-N-(2,5-dibromophenyl)-3-hydroxy-2-butenamide

CATALOG #: 2414-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₁H₈Br₂N₂O₂

MOLECULAR WEIGHT: 360.00

CAS NUMBER: 244240-24-2

APPEARANCE: White solid

SOLUBILITY: DMSO (~15 mg/ml) or EtOH (~15 mg/ml)

PURITY: ≥98% by TLC

STORAGE: At -20° C. Protect from light and air

DESCRIPTION: FM-A13 is a selective inhibitor of Bruton's tyrosine kinase (BTK) – IC₅₀'s = 2.5 μM (recombinant BTK) and 17.2 μM (human BTK). It has also been shown to inhibit Polo-like kinase (PLK) (IC₅₀ = 61 μM for human PLK3). It displays no activity (concentrations up to 278 μM) at JAK1, JAK3, HCK, EGFRK and IRK2 or CDK1-3, CHK1, IKK, MAPK1, SAPK2a and ten tyrosine kinases.

REFERENCE: Uckun, F.M., *et al.* (2007). *Bioorg. Med. Chem.* **15**, 800-814; Mahajan, S., *et al.* (1999). *J. Biol. Chem.* **274**, 9587-9599

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

A 83-01 (Cat. No. 1725-1)
 ABT-869 (Cat. No. 1615-1,5)
 Axitinib (Cat. No. 1581-5, 25)
 BIBW2992 (Cat. No. 1616-1,5)
 BMS-599626 (Cat. No. 1614-1,5)
 Bosutinib (Cat. No. 1584-5, 25)
 Canertinib (Cat. No. 1617-5)
 Cediranib (Cat. No. 1613-1,5)
 CP-690550 (Cat. No. 1622-5,25)
 Crizotinib (Cat. No. 1934-5, 25)
 Dasatinib (Cat. No. 1586-25, 100)
 Emodin (Cat. No. 1875-25, 100)
 Enzastaurin (LY317615)(Cat. No. 1619-1,5)
 Erlotinib, Hydrochloride Salt (Cat. No. 1588-100,1000)
 EZSolution™ Staurosporine (Cat. No. 1745-01)
 Gefitinib (Cat. No. 1589-5,25)
 Genistein (Cat. No. 1533-10, 100)
 Go 6976 (Cat. No. 1711-500)
 Imatinib Mesylate (Cat. No. 1625-100, 1000)
 Lapatinib Ditosylate (Cat. No. 1624-25,100)
 Nilotinib (Cat. No. 1750-25, 100)
 PD 153035, Hydrochloride (Cat. No. 1656-2)
 PD173074 (Cat. No. 1675-1)
 Saracatinib (Cat. No. 1582-5, 25)
 SB-431542 (Cat. No. 1674-1)
 Sorafenib (Cat. No. 1594-5, 25)
 Staurosporine (Cat. No. 1048-01,1)
 Tamoxifen Citrate (Cat. No. 1551-1000)
 SU 1498 (Cat. No. 1836-1,5)
 SU-5402 (Cat. No. 1645-05)
 Sunitinib Malate (Cat. No. 1611-100, 1000)
 Tyrphostin AG 1295 (Cat. No. 1571-5)
 Tyrphostin AG 490 (Cat. No. 1570-5)
 Vandetanib (Cat. No. 1751-25, 100)

USAGE: FOR RESEARCH CH USE ONLY! Not to be used in humans