

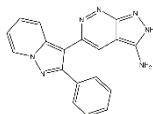
**PRODUCT: FR180204**

**ALTERNATE NAMES:** FR-180204; FR 180204; 5-(2-phenylpyrazolo[1,5-a]pyridin-3-yl)-2H-pyrazolo[3,4-c]pyridazin-3-amine

**CATALOG#:** B1683-5, -25

**AMOUNT:** 5 mg, 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>18</sub>H<sub>13</sub>N<sub>7</sub>

**MOLECULAR WEIGHT:** 327.34

**CAS NUMBER:** 865362-74-9

**APPEARANCE:** Solid powder

**SOLUBILITY:** DMSO

**PURITY:** >98%

**STORAGE:** Dry, dark and at 4°C for short term (days to weeks) or at -20°C for long term. Protect from air and light.

**DESCRIPTION:** FR180204 is a potent and selective ATP-competitive inhibitor of ERK1 and ERK2 with Ki value of 0.31  $\mu$ M and 0.14  $\mu$ M respectively; has IC50 values of 0.51 and 0.33  $\mu$ M in enzymatic assays against ERK1 and ERK2, respectively.

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

**REFERENCES:**

1. Ohori M et al. Identification of a selective ERK inhibitor and structural determination of the inhibitor-ERK2 complex. *Biochem Biophys Res Commun.* 2005 Oct 14;336(1):357-63.
2. Ohori M et al. FR180204, a novel and selective inhibitor of extracellular signal-regulated kinase, ameliorates collagen-induced arthritis in mice. *Naunyn Schmiedebergs Arch Pharmacol.* 2007 Jan;374(4):311-6.
3. Honda M et al. Mesothelioma cell proliferation through autocrine activation of PDGF- $\beta$  receptor. *Cell Physiol Biochem.* 2012;29(5-6):667-74.
4. Sreekanth GP et al. Role of ERK1/2 signaling in dengue virus-induced liver injury. *Virus Res.* 2014 Aug 8;188:15-26.

**RELATED PRODUCTS:**

- PD184352 (Cat. No. 1585-1, 5, 25)
- EZSolution™ PD184352 (Cat. No. 1871-1)
- PD 98059 (Cat. No. 1666-5)
- EZSolution™ PD 98059 (Cat. No. 1783-5)
- SB 203580 (Cat. No. 1712-1, 5)
- EZSolution™ SB-203580 (Cat. No. 1786-1)
- U0126 (Cat. No. 1668-5)
- Sorafenib (Cat. No. 1594-25, 100)
- VX-702 (Cat. No. 1598-1, 5)

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