

**Product Name:** FR 180204

**Catalog No.:** 3706

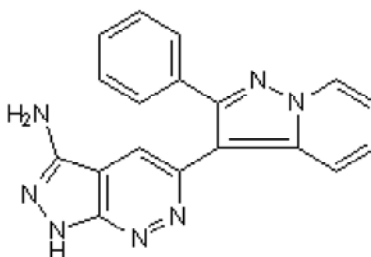
**Batch No.:** 4

CAS Number: 865362-74-9

IUPAC Name: 5-(2-Phenyl-pyrazolo[1,5-a]pyridin-3-yl)-1H-pyrazolo[3,4-c]pyridazin-3-ylamine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>13</sub>N<sub>7</sub>  
**Batch Molecular Weight:** 327.34  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.04	4	29.95
Found	65.86	3.94	30.18

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**Description:**

Selective ERK inhibitor (IC<sub>50</sub> values are 0.14 and 0.31 μM for ERK2 and ERK1 respectively). Displays 30-fold selectivity for ERK over p38α (IC<sub>50</sub> = 10 μM); displays no activity against human recombinant MEK1, MKK4, IKKα, PKCα, Src, Syc and PDGFα at concentrations less than 30 μM. Also inhibits TGFβ-induced AP-1 activation in Mv1Lu cells (IC<sub>50</sub> = 3.1 μM).

**Physical and Chemical Properties:**

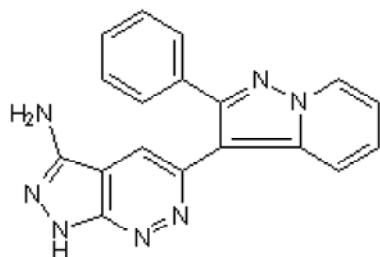
Batch Molecular Formula: C<sub>18</sub>H<sub>13</sub>N<sub>7</sub>

Batch Molecular Weight: 327.34

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Perrett *et al*** (2013) Signaling to Extracellular Signal-regulated Kinase from ErbB1 Kinase and Protein Kinase C. *J Biol Chem.* **19** 288. PMID: 23754287.

**Ogori *et al*** (2005) Identification of a selective ERK inhibitor and structural determination of the inhibitor-ERK2 complex. *Biochem.Biophys.Res.Comm.* **336** 357. PMID: 16139248.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO 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.

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956