

Product Name: Ruxolitinib phosphate

Catalog No.: 7048

Batch No.: 1

CAS Number: 1092939-17-7

IUPAC Name: (3*R*)-3-Cyclopentyl-3-[4-(7*H*-pyrrolo[2,3-*d*]pyrimidin-4-yl)-1*H*-pyrazol-1-yl]propanenitrile phosphate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₈N₆.H₃O₄P.½H₂O

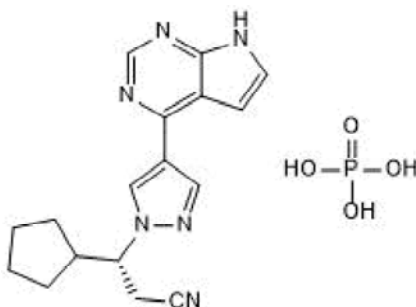
Batch Molecular Weight: 413.38

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

Chiral HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	49.4	5.36	20.33
Found	49.46	5.18	20.26

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

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Description:

Phosphate salt of Ruxolitinib (Cat. No. 7064). Potent and selective JAK1/JAK2 inhibitor; orally bioavailable.

Physical and Chemical Properties:

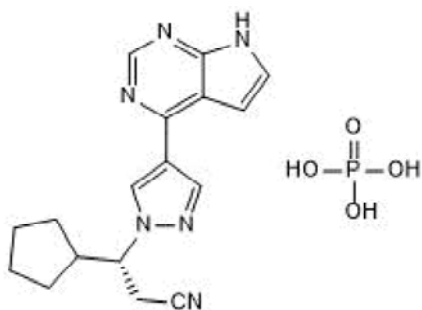
Batch Molecular Formula: C₁₇H₁₈N₆.H₃O₄P.½H₂O

Batch Molecular Weight: 413.38

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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:

Lin *et al* (2019) Enantioselective synthesis of Janus kinase inhibitor INCB018424 via an organocatalytic aza-Michael reaction. *Org.Lett.* **11** 1999. PMID: 19385672.

Quintás-Cardama *et al* (2010) Preclinical characterization of the selective JAK1/2 inhibitor INCB018424: therapeutic implications for the treatment of myeloproliferative neoplasms. *Blood* **113** 3109. PMID: 20130243.

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