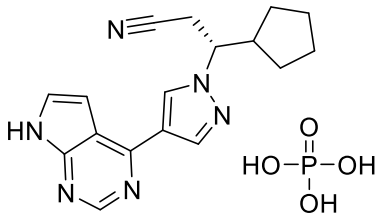


Certificate of Analysis

| MedKoo Cat#: | Product Name: | Lot#: |
|--------------|-----------------------|----------|
| 120209 | Ruxolitinib Phosphate | CRB50831 |

| Chemical name | |
|--|--|
| (R)-3-(4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-3-cyclopentylpropanenitrile phosphate. | |
| Synonyms | |
| INCB-018424; INCB 018424; INCB018424; INC424; IN C424; INC-424; INCB18424; INCB 18424; INCB-18424; Jakafi; Jakavi. | |
| Chemical structure | CAS# and Theoretical analysis |
|  | MedKoo Cat#: 120209 Name: Ruxolitinib phosphate CAS#: 1092939-17-7 (phosphate) Lot#: CRB50831 Chemical Formula: C ₁₇ H ₂₁ N ₆ O ₄ P Exact Mass: 404.13619 Molecular Weight: 404.37 |

| Analysis item | Specifications / Results |
|--------------------|--|
| Appearance | White to off-white solid powder |
| Structure | ¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature. |
| Purity (HPLC) | >99.0% |
| Solubility | Soluble in DMSO. |
| Conclusion | This product conforms with MedKoo's quality standards |
| Shipping condition | Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs. |
| Storage condition | Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition |
| Shelf life | At least 5 years if properly stored. |

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE