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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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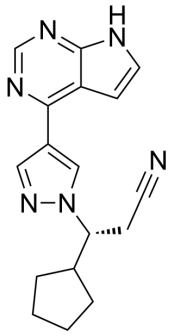
Ruxolitinib (Standard)

Cat. No.:	HY-50856R
CAS No.:	941678-49-5
Molecular Formula:	$C_{17}H_{18}N_6$
Molecular Weight:	306.37
Target:	Mitophagy; Autophagy; JAK; Apoptosis
Pathway:	Autophagy; Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ruxolitinib (Standard) is the analytical standard of Ruxolitinib. This product is intended for research and analytical applications. Ruxolitinib (INCB18424) is a potent and selective JAK1/2 inhibitor with IC_{50}s of 3.3 nM and 2.8 nM in cell-free assays, and has 130-fold selectivity for JAK1/2 over JAK3[1]. Ruxolitinib induces autophagy and kills tumor cells through toxic mitophagy[3].
IC_{50} & Target	IC50: 3.3 nM (JAK1), 2.8 nM (JAK2)

REFERENCES

[1]. Quintas-Cardama A, et al. Preclinical characterization of the selective JAK1/2 inhibitor INCB018424: therapeutic implications for the treatment of myeloproliferative neoplasms. Blood, 2010, 115(15), 3109-3117.

[2]. Verstovsek S, et al. A double-blind, placebo-controlled trial of ruxolitinib for myelofibrosis. N Engl J Med, 2012, 366(9), 799-807.

[3]. Tavallai M, et al. Rationally Repurposing Ruxolitinib (Jakafi (®)) as a Solid Tumor Therapeutic.Front Oncol. 2016 Jun 13;6:142.

Caution: Product has not been fully validated for medical applications. For research use only.

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