

Janus Kinase (JAK) Inhibitors

Janus Kinases (JAKs) are enzymes that phosphorylate Tyrosine residues on target proteins primarily acting as a signal transducer in the JAK-STAT signaling pathway which plays a key role in the synthesis of blood cells as well as cell growth, immune and inflammatory responses in the body. There are four members of the JAK family: JAK-1, 2, 3 and Tyrosine Kinase 2 (TYK2). Under normal physiological conditions, the JAK/STAT pathway transmits signals initiated by blood cell growth factors, cytokines (interleukins and interferons) or hormones from the outside of a bone marrow stem cell to its nucleus and ultimately results in differential regulation of target gene transcription. This signaling cascade ensures proper blood cell development and function, as well as balanced inflammatory responses based on the external stimuli. Defects or overactivity in this pathway are thought to cause myeloproliferative neoplasms (MPN), a group of diseases in which specific types of blood cells are overproduced and their functioning is disrupted. JAK inhibitors are under development for the treatment of many diseases stemming from either abnormalities in blood cell formation and development or inflammation: psoriasis, rheumatoid arthritis, polycythemia vera, essential thrombocythemia, and myeloid metaplasia with myelofibrosis. Tofacitinib is the first drug approved for the treatment of rheumatoid arthritis. Also approved is Ruxolitinib for the treatment of myelofibrosis and polycythemia vera. Several other JAK inhibitors are currently undergoing clinical trials.

BioVision is proud to offer >25 structurally diverse and potent JAK inhibitors for research.

Product Name	Cat. No.	Size	CAS No.
ABT-494	B1947	5 mg, 25 mg	1310726-60-3
EZSolution™ ABT-494 (Upadacitinib)	B2486	5 mg	1310726-60-3
AZ-960	B2065	5 mg, 25 mg	905586-69-8
AZD1480	2315	1 mg, 5 mg	935666-88-9
Baricitinib	2842	10 mg, 50 mg	1187594-09-7
EZSolution™ Baricitinib	B2480	5 mg	1187594-09-7
Baricitinib phosphate	2841	10 mg, 50 mg	1187595-84-1
BBT-594	B2114	5 mg, 25 mg	882405-89-2
BMS-911543	2630	1 mg, 5 mg	1271022-90-2
Cedrolatinib	2803	5 mg, 25 mg	1198300-79-6
CEP-33779	B2473	5 mg, 25 mg	1257704-57-6
EZSolution™ Cedrolatinib	B2482	5 mg	1198300-79-6
CHZ868	B2475	5 mg, 25 mg	1895895-38-1
CP-690550	1622	5 mg, 25 mg	477600-75-2
EZSolution™ CP-690550	B2478	5 mg	477600-75-2
CP-690550 citrate	9428	5 mg, 25 mg	540737-29-9
Cyt387	2316	1 mg, 5 mg	1056634-68-4
EZSolution™ Cyt387	B2484	5 mg	1056634-68-4
Decernotinib (VX-509)	B1260	5 mg, 25 mg	944842-54-0
EZSolution™ Decernotinib (VX-509)	B2621	5 mg	944842-54-0
EZSolution™ Fedratinib (TG101348)	B2487	5 mg	936091-26-8
Filgotinib	2871	10 mg, 50 mg	1206161-97-8

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Product Name	Cat. No.	Size	CAS No.
EZSolution™ Filgotinib	B2481	5 mg	1206161-97-8
GLPG0634 Analog	B1836	5 mg, 25 mg	1206101-20-3
INCB39110	B1894	5 mg, 25 mg	1334298-90-6
DiscoveryPak™ JAK Inhibitors Set	S236	9 Inhibitors	Multiple
PathwayReady™ JAK/STAT Signaling Inhibitor Panel	K864	8 inhibitors	Multiple
EZSolution™ LY-2784544	B2483	5 mg	1229236-86-5
LY-2784544	B1914	5 mg, 25 mg	1229236-86-5
MS-1020	1911	1 mg	1255516-86-9
NVP-BSK805 dihydrochloride	B2200	1 mg, 5 mg	1942919-79-0
EZSolution™ Pacritinib	B2485	1 mg	937272-79-2
Peficitinib	B2474	1 mg, 5 mg	944118-01-8
EZSolution™ Peficitinib	B2623	1 mg	944118-01-8
PF-03394197	2883	5 mg, 25 mg	1208319-26-9
EZSolution™ PF-03394197	B2479	5 mg	1208319-26-9
PF-04965842	B2470	5 mg, 25 mg	1622902-68-4
EZSolution™ PF-04965842	B2622	5 mg	1622902-68-4
EZSolution™ Ruxolitinib	B2477	5 mg	941678-49-5
Ruxolitinib phosphate	B2631	5 mg, 25 mg	1092939-17-7
Ruxolitinib, Free base	2139	5 mg, 25 mg	941678-49-5
SAR-20347	B1290	5 mg, 25 mg	1450881-55-6
SB1317 (TG-02)	B3218	5 mg, 25 mg	1204918-72-8
TCS 21311	B2927	5 mg, 25 mg	1260181-14-3
TG-101209	B3220	5 mg, 25 mg	936091-14-4
TG101348	2314	1 mg, 5 mg	936091-26-8
Tyrphostin AG 490	1570	5 mg	133550-30-8
WHI-P131	1853	5 mg, 25 mg	202475-60-3
WHI-P154	2659	5 mg, 25 mg	211555-04-3
WP1066	1809	5 mg, 25 mg	857064-38-1

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