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# JAK2 Inhibitor XL019

National Cancer Institute

## Source

National Cancer Institute. *JAK2 Inhibitor XL019*. NCI Thesaurus. Code C90573.

An orally bioavailable inhibitor of Janus-associated kinase 2 (JAK2) with potential antineoplastic activity. XL019 inhibits the activation of JAK2 as well as the mutated form JAK2V617F, which may result in the inhibition of the JAK-STAT signaling pathway and may induce apoptosis. The JAK2 mutated form JAK2V617F has a valine-to-phenylalanine modification at position 617 and plays a key role in tumor cell proliferation and survival.