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JAK2 Inhibitor AZD1480

National Cancer Institute

Source

National Cancer Institute. *JAK2 Inhibitor AZD1480*. NCI Thesaurus. Code C91394.

An orally bioavailable inhibitor of Janus-associated kinase 2 (JAK2) with potential antineoplastic activity. JAK2 inhibitor AZD1480 inhibits JAK2 activation, leading to the inhibition of the JAK/STAT (signal transducer and activator of transcription) signaling including activation of STAT3. This may lead to induction of tumor cell apoptosis and a decrease in cellular proliferation. JAK2, often upregulated or mutated in a variety of cancer cells, mediates STAT3 activation and plays a key role in tumor cell proliferation and survival.