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# NTRK/ROS1 Inhibitor DS-6051b

National Cancer Institute

## Source

National Cancer Institute. *NTRK/ROS1 Inhibitor DS-6051b*. NCI Thesaurus. Code C118948.

An orally available inhibitor of the receptor tyrosine kinases C-ros oncogene 1 (ROS1) and the neurotrophic tyrosine receptor kinase (NTRK) types 1, 2 and 3, with potential antineoplastic activity. Upon oral administration, DS-6051b binds to and inhibits ROS1 and the NTRK family members. This inhibition leads to a disruption of ROS1- and NTRK-mediated signaling and eventually inhibits the growth of tumor cells that are overexpressing ROS1 and/or NTRKs. ROS1, overexpressed in certain cancer cells, plays a key role in cell growth and survival of cancer cells. NTRK mutations or rearrangements play a key role in cancer progression.