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FMS Inhibitor JNJ-40346527

National Cancer Institute

Source

National Cancer Institute. FMS Inhibitor INI-40346527. NCI Thesaurus. Code C101519.

A small molecule and orally available inhibitor of colony-stimulating factor-1 receptor (CSF1R; FMS) with potential antineoplastic activity. FMS tyrosine kinase inhibitor JNJ-40346527 blocks the receptor-ligand interaction between FMS and its ligand CSF1, thereby preventing autophosphorylation of FMS. As a result, unphosphorylated FMS can not activate FMS-mediated signaling pathways, thus potentially inhibiting cell proliferation in FMS-overexpressed tumor cells. FMS, a tyrosine kinase receptor, is overexpressed in certain tumor cell types and plays an essential role in macrophage differentiation, recruitment, and activation as well as the regulation of cell proliferation.

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