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## ERK1/2 Inhibitor KO-947

National Cancer Institute

## Source

National Cancer Institute. <u>ERK1/2 Inhibitor KO-947</u>. NCI Thesaurus. Code C141074.

An inhibitor of the extracellular signal-regulated kinases (ERK) 1 and 2, with potential antineoplastic activity. Upon intravenous administration, KO-947 specifically binds to and inhibits both ERK 1 and 2, thereby preventing the activation of mitogen-activated protein kinase (MAPK)/ERK-mediated signal transduction pathways. This results in the inhibition of ERK-dependent tumor cell proliferation and survival. The MAPK/ERK pathway is often upregulated in a variety of tumor cell types and plays a key role in the proliferation, differentiation and survival of tumor cells.

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