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# P70S6K/Akt Inhibitor MSC2363318A

National Cancer Institute

## Source

National Cancer Institute. *p70S6K/Akt Inhibitor MSC2363318A*. NCI Thesaurus. Code C112004.

An orally available inhibitor of the serine/threonine protein kinases ribosomal protein S6 Kinase (p70S6K) and Akt (protein kinase B), with potential antineoplastic activity. Upon administration, p70S6K/Akt inhibitor MSC2363318A binds to and inhibits the activity of p70S6K and Akt. This prevents the activation of the PI3K/Akt/p70S6K signaling pathway and inhibits tumor cell proliferation in cancer cells that have an overactivated PI3K/Akt/p70S6K signaling pathway. Constitutive activation and dysregulated signaling of the PI3K/Akt/p70S6K pathway are frequently associated with tumorigenesis of many tumor types; targeting multiple kinases in this pathway is more efficacious than targeting a single kinase.