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# Tropomyosin Receptor Kinase Inhibitor AZD7451

National Cancer Institute

## Source

National Cancer Institute. *Tropomyosin Receptor Kinase Inhibitor AZD7451*. NCI Thesaurus. Code C99161.

A tropomyosin receptor kinase (TRK) inhibitor with potential antineoplastic activity. AZD7451 binds to TRK, thereby preventing the neurotrophin-TRK interaction and subsequent TRK activation. This may eventually result in an inhibition of tumor cell proliferation in TRK-expressing tumor cells. TRK, a receptor tyrosine kinase activated by neurotrophins, is mutated in a variety of cancer cell types and plays an important role in tumor cell growth, invasion and survival.