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# BTK inhibitor TG-1701

National Cancer Institute

## Source

National Cancer Institute. *BTK inhibitor TG-1701*. NCI Thesaurus. Code C162479.

An orally available irreversible inhibitor of Bruton's tyrosine kinase (BTK; Bruton agammaglobulinemia tyrosine kinase) with potential antineoplastic activity. Upon administration, BTK inhibitor TG-1701 covalently binds to and irreversibly inhibits BTK activity, thereby preventing the activation of the B-cell antigen receptor (BCR) signaling pathway and BTK-mediated activation of downstream survival pathways. This may inhibit the growth of malignant B-cells that overexpress BTK. BTK, a member of the Src-related BTK/Tec family of cytoplasmic tyrosine kinases, is overexpressed or mutated in B-cell malignancies; it plays an important role in the development, activation, signaling, proliferation and survival of B-lymphocytes.