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# RIG-I selective Ligand RGT100

National Cancer Institute

## Source

National Cancer Institute. *RIG-I selective Ligand RGT100*. NCI Thesaurus. Code C148187.

A synthetic RNA oligonucleotide and agonist of the retinoic acid-inducible gene I protein (RIG-I; DDX58), with potential antineoplastic activity. Upon intratumoral/intralesional administration, the RIG-I selective ligand RGT 100 targets and binds to the cytosolic RNA receptor RIG-I. This induces RIG-I-mediated signaling, upregulates interferon (IFN)-alfa (IFN-a) and beta (IFN-b), and induces a potent IFN-mediated innate immune response against the tumor cells. This induces the activation of natural killer (NK) cells and cytotoxic T-lymphocytes (CTL) and induces apoptosis in cancer cells.