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# Toll-like Receptor 7 Agonist DSP-0509

National Cancer Institute

## Source

National Cancer Institute. *Toll-like Receptor 7 Agonist DSP-0509*. NCI Thesaurus. Code C153314.

A synthetic, small molecule, toll-like receptor (TLR) 7 agonist, with potential immunostimulatory and antineoplastic activities. Upon intravenous administration, TLR7 agonist DSP-0509 activates TLR7, resulting in type I interferon secretion and activation of cytotoxic T-lymphocyte (CTL)-mediated anti-tumor immune responses. TLR7 is a member of the TLR family, which plays a fundamental role in pathogen recognition and activation of innate immunity.