

Store at
-20°C
#47945**Poly(dA:dT) Sodium Salt**

200 µg


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For Research Use Only. Not for Use in Diagnostic Procedures.**Background**

Poly(dA:dT) Sodium Salt, also known as poly(deoxyadenylic-thymidylic) acid sodium salt, is a double-stranded alternating copolymer DNA model with repetitive synthetic sequences of poly(dA-dT):poly(dT-dA). Poly(dA:dT) Sodium Salt plays a role in the innate immune response by binding to pattern recognition receptors (PRRs), which are used by host cells to detect pathogen-associated molecular patterns (PAMPs) (1). This synthetic B-DNA analog can trigger intracellular DNA sensors, such as DDX41, that leads to stimulator of interferon genes (STING) activation, and downstream activation of the transcription factors NF-κB and IRF-3 (2,3). The effect of cytosolic DNA on the innate immune response is particularly important when studying viral infections (1-3).

CAS

86828-69-5

Storage

Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

Poly(dA:dT) Sodium Salt is supplied as a lyophilized powder. To prepare a 1 mg/mL stock solution, reconstitute the powder in 200 µL sterile, endotoxin-free water. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Chiu, Y.H. et al. (2009) *Cell* 138, 576-91.
2. Zhang, Z. et al. (2011) *Nat Immunol* 12, 959-65.
3. Wu, J. et al. (2013) *Science* 339, 826-30.

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