

## Deoxyribonucleic acid sodium, from calf thymus, Type I, fibers

Cat. No.:	HY-153118	
CAS No.:	73049-39-5	
Target:	Biochemical Assay Reagents	
Pathway:	Others	Calf thymus DNA (sodium)
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 6.25 mg/mL (Need ultrasonic)
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### BIOLOGICAL ACTIVITY

Description	Deoxyribonucleic acid sodium, from calf thymus, Type I, fibers is the sodium salts form of Calf thymus DNA (HY-109517). Calf thymus DNA is a double-stranded template DNA isolated from calf thymus. It can be used to study the interaction between DNA and DNA binding agents, as well as the structure and function of DNA, for DNA quantification and used as a substrate for DNA polymerase analysis, etc <sup>[1][2][3]</sup> .
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In Vitro	Note: To reduce DNA shearing, sonication or agitation should not be used. It's recommended to shake gently overnight at 0-4°C to completely dissolve the DNA. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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### REFERENCES

- [1]. Li HJ, Brand B, Rotter A. Thermal denaturation of calf thymus DNA: existence of a GC-richer fraction. *Nucleic Acids Res.* 1974 Feb;1(2):257-65.
- [2]. Akhter F, et al. Bio-physical characterization of ribose induced glycation: a mechanistic study on DNA perturbations. *Int J Biol Macromol.* 2013 Jul;58:206-10.
- [3]. Liu F, et al. Cytotoxicity of Aconitum alkaloid and its interaction with calf thymus DNA by multi-spectroscopic techniques. *Sci Rep.* 2017 Nov 6;7(1):14509.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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