

ODN TTAGGG

Cat. No.:	HY-150751	
CAS No.:	1801724-76-4	
Molecular Weight:	7944.3	
Sequence:	DNA, d(P-thio)(T-T-A-G-G-G-T-T-A-G-G-G-T-T-A-G-G-G-T-T-A-G-G-G)	DNA, d(P-thio)(T-T-A-G-G-G-T-T-A-G-G-G-T-T-A-G-G-G-T-T-A-G-G-G)
Target:	Toll-like Receptor (TLR); AIM2	
Pathway:	Immunology/Inflammation	
Storage:	-20°C, sealed storage, away from moisture	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 20 mg/mL (2.52 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	0.1259 mL	0.6294 mL	1.2588 mL
	5 mM	---	---	---	
	10 mM	---	---	---	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

ODN TTAGGG (A151), inhibitory oligonucleotide (ODN), is a TLR9, AIM2 and cGAS antagonist. ODN TTAGGG is immunosuppressive and inhibits AIM2 inflammasome activation, as well as cGAS activation, by competing with DNA. ODN TTAGGG can be used in the study of lupus erythematosus and other related autoimmune diseases. ODN TTAGGG sequence: 5'-T-T-A-G-G-G-T-T-A-G-G-G-T-T-A-G-G-G-T-T-A-G-G-G-3'^{[1][2]}.

REFERENCES

- [1]. John J Kaminski, et al. Synthetic oligodeoxynucleotides containing suppressive TTAGGG motifs inhibit AIM2 inflammasome activation. J Immunol. 2013 Oct 1;191(7):3876-83.
- [2]. Folkert Steinhagen, et al. Suppressive oligodeoxynucleotides containing TTAGGG motifs inhibit cGAS activation in human monocytes. Eur J Immunol. 2018 Apr;48(4):605-611.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA