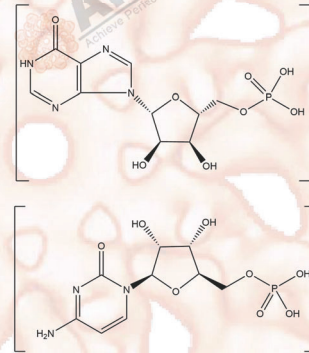


Product Data Sheet

Poly(I:C)

Cat. No.: B5551
CAS No.: 24939-03-5
Formula: (C₁₀H₁₃N₄O₈P)_x.(C₉H₁₄N₃O₈P)_x
M.Wt:
Synonyms:
Target: Immunology/Inflammation
Pathway: TLR
Storage: Store at -20° C



Solvent & Solubility

insoluble in DMSO; insoluble in EtOH; ≥ 21.5 mg/mL in H₂O

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	1.4894 mL	7.4470 mL	14.8940 mL
	5 mM	0.2979 mL	1.4894 mL	2.9788 mL
	10 mM	0.1489 mL	0.7447 mL	1.4894 mL

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

Biological Activity

Shortsummary

Toll-like receptor 3 (TLR3) agonist

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: Dendritic cell

Preparation method:

Soluble in sterile water. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Reacting conditions:

12.5 mg/ml, 3 days

	Applications:	Treatment of immature DC for 72 h with poly(I:C) resulted in the typical DC morphology and induced significant maturation. Poly(I:C)-treated DC remained stable in phenotype after cytokine withdrawal. Poly(I:C)-treated DC down-regulated pinocytic activity. Poly(I:C)-treated DC produced high levels of IL-12 and low levels of IL-10.
	Animal experiment	
In Vivo	Applications:	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Verdijk R M, Mutis T, Esendam B, et al. Polyriboinosinic polyribocytidylic acid (poly (I: C)) induces stable maturation of functionally active human dendritic cells[J]. The Journal of Immunology, 1999, 163(1): 57-61.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

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