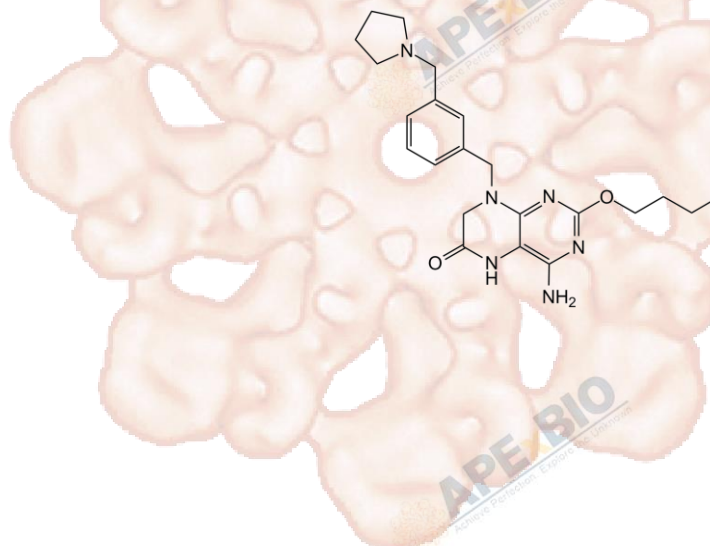


Product Data Sheet

GS-9620

Cat. No.:	A3444
CAS No.:	1228585-88-3
Formula:	C22H30N6O2
M.Wt:	410.51
Synonyms:	GS 9620;GS9620
Target:	Microbiology & Virology
Pathway:	HBV
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥20.55 mg/mL in DMSO; ≥9.9 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		2.4360 mL	12.1800 mL	24.3599 mL
	5 mM		0.4872 mL	2.4360 mL	4.8720 mL
	10 mM		0.2436 mL	1.2180 mL	2.4360 mL

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

Biological Activity

Shortsummary

TLR-7 agonist

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Peripheral blood mononuclear cells (PBMCs) or plasmacytoid dendritic cells (pDCs)
Preparation method:	Soluble in DMSO. 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:	14 ~ 66 nM

	Applications:	In human and cynomolgus monkey PBMCs and/or pDCs, GS-9620 induced interferon (IFN)-alpha and other cytokines, with a minimum effective concentration ranging from 14 to 66 nM in humans and with 5-fold less potency in monkeys.
In Vivo	Animal experiment	
	Animal models:	Cynomolgus monkeys
	Dosage form:	single doses of 0.1 ~ 2.0 mg, daily doses of 0.1 ~ 1.0 mg for 7 days or every other day doses of 0.05 ~ 1.5 mg for 28 days; p.o.
	Applications:	In cynomolgus monkeys, GS-9620 was well tolerated even at the highest oral doses (1.5 mg every other day for 28 days). GS-9620 increased IFN-alpha, immunomodulatory cytokines, chemokines and peripheral blood cell IFN stimulated genes (ISGs) in a dose-dependent manner. In addition, there was no evidence of tachyphylaxis following every other day dosing, and oral administration resulted in limited systemic bioavailability but high oral absorption.
	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]. Turnas P, Zheng X, Lu B, et al. 1129 Preclinical characterization of GS-9620, a potent and selective oral TLR7 agonist[J]. Journal of Hepatology, 2011, 54: S446-S447.

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 APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term 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

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

