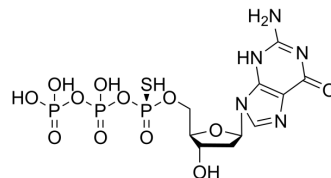


Rp-dGTPαS

Cat. No.:	HY-137618B
CAS No.:	80902-29-0
Molecular Formula:	C ₁₀ H ₁₆ N ₅ O ₁₂ P ₃ S
Molecular Weight:	523.25
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Rp-dGTPαS is the nucleotide substrate of SAMHD1 and is one of the enantiomers of the dNTPαS nucleotide. SAMHD1 is an essential regulator of cellular dNTPs that limits virus (HIV-1, etc.) replication in the CD4+ myeloid lineage and resting T cells. The SAMHD1 tetrameric complex catalyzes the hydrolysis of Rp-dGTPαS into 2'-deoxynucleosides and triphosphates ^[1] .
IC ₅₀ & Target	SAMHD1 ^[1]

REFERENCES

[1]. Morris ER, et al. Probing the Catalytic Mechanism and Inhibition of SAMHD1 Using the Differential Properties of Rp- and Sp-dNTPαS Diastereomers. *Biochemistry*. 2021 Jun 1;60(21):1682-1698.

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