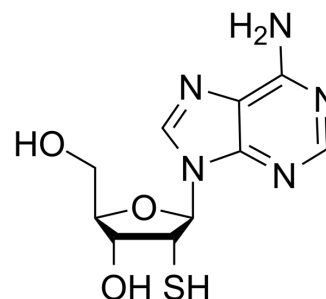


2'-Thioadenosine

Cat. No.:	HY-137028
CAS No.:	136904-69-3
Molecular Formula:	C ₁₀ H ₁₃ N ₅ O ₃ S
Molecular Weight:	283.31
Target:	EGFR
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2'-Thioadenosine (PD157432) is a selective and irreversible inhibitor of ErbB-1 and ErbB-2, with an IC ₅₀ of 45 μM for ErbB-2. 2'-Thioadenosine covalently inactivates ErbB-1 via modification of a cysteine residue at the active site ^[1] .	
IC₅₀ & Target	ErbB1	ErbB2 45 μM (IC ₅₀)
In Vitro	2'-Thioadenosine (50 μM) exhibits no activity against FGF, PDGF or insulin receptor tyrosine kinases ^[1] . 2'-Thioadenosine covalently inactivates ErbB-1, which is reversed by 1 mM Dithiothreitol ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Singh J, et, al. Structure-based design of a potent, selective, and irreversible inhibitor of the catalytic domain of the erbB receptor subfamily of protein tyrosine kinases. J Med Chem. 1997 Mar 28;40(7):1130-5.

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