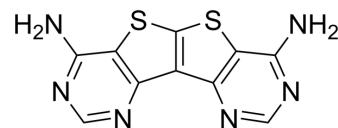


EGFR-IN-75

Cat. No.:	HY-152144
Molecular Formula:	C ₁₀ H ₆ N ₆ S ₂
Molecular Weight:	274.32
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	EGFR-IN-75 is an EGFR ^{WT} and EGFR ^{T790M} inhibitor with IC ₅₀ values of 0.28 μM and 5.02 μM, respectively. EGFR-IN-75 shows anticancer and antioxidant activity ^[1] .	
IC₅₀ & Target	EGFR ^{WT} 0.28 μM (IC ₅₀)	EGFR ^{T790M} 5.02 μM (IC ₅₀)
In Vitro	EGFR-IN-75 (compound 2) shows cytotoxicity against MCF-7 and A549 cell lines with IC ₅₀ values of 4.92 μM and 4.69 μM, respectively ^[1] . EGFR-IN-75 (compound 2) also has the best antioxidant property, decreasing the radical scavenging activity by 78% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Sanaa A Ahmed, et al. Thieno[2,3- b]thiophene Derivatives as Potential EGFR^{WT} and EGFR^{T790M} Inhibitors with Antioxidant Activities: Microwave-Assisted Synthesis and Quantitative In Vitro and In Silico Studies. ACS Omega. 2022 Dec 3;7(49):45535-45544.

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

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