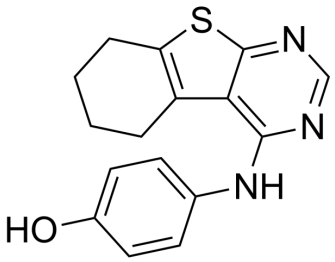
Tyrosine kinase-IN-7

Cat. No.:	HY-156912
CAS No.:	345615-74-9
Molecular Formula:	$C_{16}H_{15}N_3OS$
Molecular Weight:	297.37
Target:	EGFR
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Tyrosine kinase-IN-7 (compound 13h) is an inhibitor of the tyrosine kinase EGFR. The IC_{50}s for inhibiting EGFR(WT) and EGFR(T790M) are 0.630 μM and 0.956 μM respectively. Tyrosine kinase-IN-7 has antitumor activity against four cancer cell lines (HepG2, HCT-116, MCF-7, and A431) with IC_{50}s of 13.02 μM, 10.14 μM, 12.68 μM, and 47.05 μM, respectively[1].
IC_{50} & Target	IC50: 0.630 μM ($EGFR^{WT}$), 0.956 μM ($EGFR^{T790M}$)[1]

REFERENCES

[1]. Elmetwally SA, et al. Design, synthesis and anticancer evaluation of thieno[2,3-d]pyrimidine derivatives as dual EGFR/HER2 inhibitors and apoptosis inducers. Bioorg Chem. 2019 Jul;88:102944.

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