

## 4-TCPA

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	4-TCPA is a potent inhibitor of VEGFR2. It induces apoptosis and causes cell cycle arrest, potentially by inhibiting VEGFR2 and EGFR signaling, while also affecting the mTOR pathway. Furthermore, 4-TCPA suppresses the viability and proliferation of various cancer cell lines. It is applicable in research on cancers such as lung cancer, breast cancer, and leukemia.
Targets(IC50)	Apoptosis,EGFR,mTOR,VEGFR
In vitro	4-TCPA exhibits varying IC50 values across different cell lines when tested for 72 hours, with an IC50 of 35.70 $\mu$ M in A549 cells, 19.50 $\mu$ M in MCF7 cells, 5.95 $\mu$ M in K562 cells, and 135.2 $\mu$ M in HFF2 cells. Within the 5.95-35.70 $\mu$ M range over 72 hours, 4-TCPA induces apoptosis by activating the mitochondrial pathway in the K562, MCF7, and A549 cell lines, demonstrating different levels of sensitivity.

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