

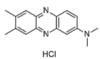
Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name : Neutral Red
Cat. No. : PC-20480
CAS No. : 553-24-2
Molecular Formula : C₁₅H₁₆N₄.CIH
Molecular Weight : 288.78

Target : Deubiquitinase (DUB)
Solubility : 10 mM in DMSO



Biological Activity

Neutral Red is a nitrogenous **pH-indicator** that can stains lysosomes red, also is a selective, uncompetitive **USP4** inhibitor with IC50 of 50 uM.

Neutral Red displays no effective activity on other DUBs (YOD1, USP5, UCHL1, and USP14).

Neutral Red inhibited the deubiquitinating activity of USP4 in colon cancer cells.

Neutral Red affected the protein stability of β -catenin, and the target genes expression of β -catenin.

Neutral Red significantly reduced colony formation and cell migration, reduced the tumor volume in mouse xenograft models.

References

Nguyen HH, et al. Cell Physiol Biochem. 2019;53(1):157-171.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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