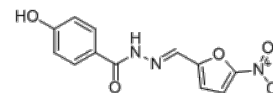


Product Name : Nifuroxazide
Cat. No. : PC-49691
CAS No. : 965-52-6
Molecular Formula : C₁₂H₉N₃O₅
Molecular Weight : 275.22
Target : Bacterial
Solubility : 10 mM in DMSO



Biological Activity

Nifuroxazide (NFX) is a broad-spectrum antibacterial agent, also exhibits potent inhibition of the transcription factor STAT3, also inhibits ERG-mediated transcription.

Nifuroxazide inhibited the proliferation of a TMPRSS2:ERG fusion-positive prostate cancer cell line (VCaP) with an IC₅₀ lower than that of ERG-negative prostate cancer cell lines (LNCaP, DU145 and WPMY cells).

Nifuroxazide blocked PARP1 interaction with ERG, which is required for ERG-mediated transcription.

Nifuroxazide inhibited survival of multiple myeloma cells by directly inhibiting STAT3, inhibited STAT3-dependent luciferase activity with EC₅₀ of 3 μM.

References

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Ye TH, et al. Cell Death Dis. 2017 Jan 5;8(1):e2534.

Nelson EA, et al. Blood. 2008 Dec 15;112(13):5095-102.

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

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