Antitumoral Quinol2 Small Molecule (Tool Compound)

Catalogue number: 151840
Sub-type: Inhibitor
Images:

Contributor

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Institute: University of Nottingham
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Antitumoral Quinol2 Small Molecule (Tool Compound)

Alternate name:

Class:
Conjugate:
Description: The antitumoral Quinol2, also known as PMX464, is a potent in vitro antitumour activity was observed in HCT 116 and HT 29 human colon as well in as MCF-7 and MDA 468 human breast cancer cell lines. This molecule also showed in vivo antitumour activity against human RXF 944XL renal xenografts in nude NMRI mice.A new class of molecule (4-hydroxy-4-hetarylcyclohexa-2,5-dien-1-ones) bearing a new pharmacophore (quinols') has been identified with potent activity against renal, colon and breast cell lines in the NCI 60-cell panel. It also demonstrates potent in vitro anti-proliferative activity and in vivo anti-tumour activity in tumour xenografts
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype:
Reactivity:
Selectivity:
Host:
Immunogen:
Immunogen UNIPROT ID:
Sequence:

Growth properties:
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target:

Target alternate names:

Target background:

Molecular weight: 243.29

Ic50:

Applications

Application: Displays in vivo antitumor activity against human RXF 944XL renal xenografts in nude NMRI mice. Inhibits thioredoxin reductase with potencies correlated with their antiproliferative and cytotoxic efficacies. Potent activity against renal, colon, and breast cancer cell lines in the NCI 60-cell panel. Shows potent antitumor activity in HCT 116 and HT 29 human colon as well as MCF 7 and MDA 468 human breast cancer cell lines.
Application notes:

Handling

Format:
Concentration:
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions: Ambient
Shipping conditions: Dry Ice

Related tools

Related tools:

References

References: Bradshaw et al. 2009. Pharmacology. 83(2):99-109. PMID: 19088497. ; Preclinical toxicokinetic evaluation of phortress [2-(4-amino-3-methylphenyl)-5-fluorobenzothiazole lysylamide dihydrochloride] in two rodent species. ; Fichtner et al. 2004. Breast Cancer Res Treat. 87(1):97-107. PMID: 15377855. ; The experimental antitumor agents Phortress and doxorubicin are equiactive against human-derived breast carcinoma xenograft models. ; Bradshaw et al. 2004. Curr Med Chem. 11(8):1009-21. PMID: 15078...