

HDAC2/3 inhibitor MI-192 Small Molecule (Tool Compound)

Catalogue number: 152433

Sub-type: Inhibitor

Images:

Contributor

Inventor: Ron Grigg

Institute: University of Leeds

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: HDAC2/3 inhibitor MI-192 Small Molecule (Tool Compound)

Alternate name:

Class:

Conjugate:

Description: MI-192 is a novel benzamide-based compound with marked selectivity for the class I enzymes, HDAC2 (histone-deacetylase 2) and HDAC3 (histone-deacetylase 3). MI-192 is also a histone-deacetylase (HDAC)-3 selective inhibitor. MI-192 might have potential in the treatment of rheumatoid arthritis, and HDAC-selective inhibition may improve the therapeutic margin of safety. Studies in various cancer cell lines have also revealed that MI-192 might be a potential therapeutic agent for use in leukaemia.

Purpose: Inhibitor

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity: Exhibits >250-fold selectivity for HDAC2/3 over other HDAC isoforms.

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: 419.91

IC50: Potent and selective HDAC2/3 inhibitor (IC50 values are 16 and 30 nM, respectively)

Applications

Application: Promotes apoptosis of leukemia cell lines in vitro. Also attenuates IL-6 production in rheumatoid arthritis PBMCs in vitro. MI-192 (CRT0163458) shows potent activity in a number of cell lines tested using the NCI-60 cell panel. MI-192 was tested using the following NCI-60 cell lines: Leukemia cell lines: CCRF-CEM, HL-60 (TB), K-562, MOLT-4 and RPMI-8226. Colon Cancer cell lines: COLO205, HCC-2998, HCT-116, HCT-15, HT29, KM12 and SW-620. CNS Cancer cell lines: SF-268, SF-295, SF-539, SNB-19, ...

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:

CancerTools.org