

Mizoribine

Catalog No: tcsc1823



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

50924-49-7

Formula:

$C_9H_{13}N_3O_6$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 35 mg/mL (135.02 mM)

Alternative Names:

NSC 289637;HE 69

Observed Molecular Weight:

259.22

Product Description

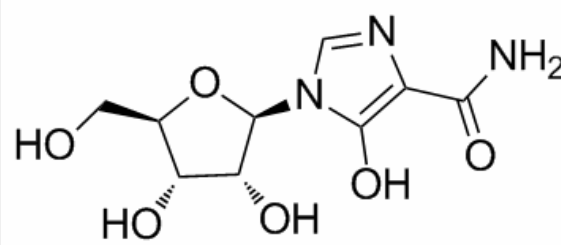
Mizoribine (NSC 289637; HE 69; β -Bredinin) is an immunosuppressive agent (IC₅₀=100 μ M) that inhibits the proliferation of lymphocytes selectively, via inhibition of IMPDH.

IC₅₀ Value:

Target: IMPDH

in vitro: Unlike azathioprine, Mizoribine is not taken up by nucleic acids in the cell. Instead, after phosphorylation MZR-5 - monophosphate inhibits GMP synthesis by the antagonistic blocking of IMPDH ($K_i = 10^{-8}$ M) and GMP- synthetase ($K_i = 10^{-5}$ M) [1]. Pretreatment of cells with MZR partially, but significantly, attenuates the expression of monocyte chemoattractant protein (MCP)-1 mRNA and protein, whereas the poly IC-induced expressions for the other functional molecules, such as CCL5, fractalkine and IL-8 were not influenced by MZR treatment [2].

in vivo: MZR 150 mg was administered once a day. After 6 months, the remission rate was 72.7% (2 subjects achieved complete remission, and 9 partial remission). After 3 and 6 months, significant reductions (p



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