



LKT Laboratories, Inc.

Mizoribine Hydrobromide

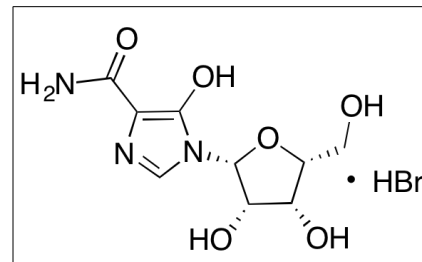
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Product Information

Product ID M3598
CAS No. 50924-49-7
Chemical Name

Synonym

Formula $C_9H_{13}N_3O_6 \cdot HBr$
Formula Wt. 340.13
Melting Point
Purity $\geq 98\%$
Solubility



Bulk quantities available upon request

Product ID	Size
M3598	10 mg
M3598	25 mg
M3598	100 mg

Store Temp Ambient
Ship Temp Ambient

Description Mizoribine is an inhibitor of inosine monophosphate dehydrogenase (IMPDH) that exhibits immunosuppressive and, potentially, antifungal activities. Mizoribine is used clinically in organ transplantations and to treat rheumatoid arthritis and lupus. In synovial cells, mizoribine decreases levels of IL-6 and matrix metalloproteinase 1 (MMP1). Mizoribine also inhibits proliferation of mesangial cells, decreasing expression of cyclin D1, skp2, and CDK2; it also increases expression of p27. Additionally, this compound may decrease proliferation of species of *Candida* and *Aspergillus*.

- References** Sugiyama E, Ikemoto M, Taki H, et al. Mizoribine, an inhibitor of inosine monophosphate dehydrogenase, inhibits interleukin-6 production by freshly prepared rheumatoid synovial cells. *Mod Rheumatol*. 2001 Mar;11(1):28-33. PMID: 24387017.
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- Rodriguez-Suarez R, Xu D, Veillette K, et al. Mechanism-of-action determination of GMP synthase inhibitors and target validation in *Candida albicans* and *Aspergillus fumigatus*. *Chem Biol*. 2007 Oct;14(10):1163-75. PMID: 17961828.
- Zhong B, Tajima M, Takahara H, et al. Inhibitory effect of mizoribine on matrix metalloproteinase-1 production in synovial fibroblasts and THP-1 macrophages. *Mod Rheumatol*. 2005;15(4):264-8. PMID: 17029075.
- Hedstrom L. IMP dehydrogenase: mechanism of action and inhibition. *Curr Med Chem*. 1999 Jul;6(7):545-60. PMID: 10390600.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.