

## Product Information

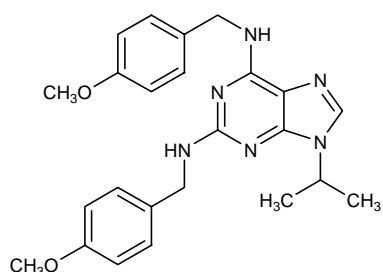
### Myoseverin

Product Number **M 3191**

Storage Temperature  $-20^{\circ}\text{C}$

CAS #: 267402-71-1

Synonyms: 9-Isopropyl-N<sub>2</sub>,N<sub>6</sub>-bis-(4-methoxybenzyl)-9H-purine-2,6-diamine



### Product Description

Molecular Formula:  $\text{C}_{24}\text{H}_{28}\text{N}_6\text{O}_2$

Molecular Weight: 432.5

A 2,6,9 trisubstituted purine, myoseverin is a microtubule-binding protein and reversible inhibitor of tubulin polymerization. It arrests cell cycle in the G<sub>2</sub>/M phase.<sup>1,2,3</sup> It causes mature, terminal differentiated mouse muscle cells to revert to mononucleated cells, that respond to growth and differentiation conditions.<sup>4</sup>

### Reagent

Myoseverin is supplied as an off-white solid.

Packaged under argon.

Purity:  $\geq 97\%$  (HPLC)

### Precautions and Disclaimer

Consult the MSDS for information regarding hazards and safe handling practices.

### Preparation Instructions

Myoseverin is soluble in chloroform at 50 mg/ml.

### Storage/Stability

Store at  $-20^{\circ}\text{C}$

### References

1. Franek, F., et al., Effect of the Purine Derivative Myoseverin and its analogues on cultured hybridoma Cells. Collection of Czechoslovak Chemical Communications, **67(2)**, 257-266 (2002).
2. Chang, Y.T., et al., Synthesis and biological evaluation of myoseverin derivatives: microtubule assembly inhibitors. J. Med. Chem., 2002,, 4497-4500 (2001).
3. Rosania, G.R., et al., Myoseverin, a novel microtubule-binding molecule with novel cellular effects. Nature Biotechnology, **18**, 307-308 (2000).
4. Perez, O.D., et al., Inhibition and reversal of myogenic differentiation by purine-based microtubule assembly inhibitors. Chem. Biol., **9(4)**, 475-483 (2002).

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