



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Expressversand

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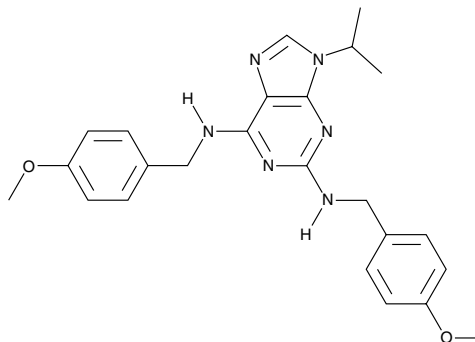
# Product Information



## Myoseverin

Item No. 14642

**CAS Registry No.:** 267402-71-1  
**Formal Name:** N<sup>2</sup>,N<sup>6</sup>-bis[(4-methoxyphenyl)methyl]-9-(1-methylethyl)-9H-purine-2,6-diamine  
**MF:** C<sub>24</sub>H<sub>28</sub>N<sub>6</sub>O<sub>2</sub>  
**FW:** 432.5  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 231, 262, 285 nm



### Laboratory Procedures

For long term storage, we suggest that myoseverin be stored as supplied at -20°C. It should be stable for at least two years.

Myoseverin is supplied as a crystalline solid. A stock solution may be made by dissolving the myoseverin in the solvent of choice. Myoseverin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of myoseverin in these solvents is approximately 0.11, 10, and 3.3 mg/ml, respectively.

Myoseverin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, myoseverin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Myoseverin has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Myoseverin is a trisubstituted purine which binds microtubules, reversibly altering cellular function.<sup>1,2</sup> At 20 μM, it directly binds tubulin and disrupts the structure of the microtubule cytoskeleton, resulting in myotube fission.<sup>1</sup> Myoseverin arrests cell cycle in the G<sub>2</sub>/M phase, followed by DNA synthesis and cell proliferation after removal of the compound.<sup>1</sup>

### References

1. Rosania, G.R., Chang, Y.-T., Perez, O., *et al.* Myoseverin, a microtubule-binding molecule with novel cellular effects. *Nat. Biotechnol.* **18**(3), 304-308 (2000).
2. Moon, H.-S., Jacobson, E.M., Khersonsky, S.M., *et al.* A novel microtubule destabilizing entity from orthogonal synthesis of triazine library and zebrafish embryo screening. *J. Am. Chem. Soc.* **124**(39), 11608-11609 (2002).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/14642](http://www.caymanchem.com/catalog/14642)

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**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

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