**PRODUCT INFORMATION**

**M2I-1**

*Item No. 22297*

**CAS Registry No.:** 312271-03-7  
**Formal Name:** 5-[[4-[[bis(2-methylpropyl)amino]-3-nitrophenyl]methylene]dihydro-2-thioxo-4,6(1H,5H)-pyrimidinedione  
**MF:** C_{19}H_{24}N_{4}O_{4}S  
**FW:** 404.5  
**Purity:** ≥98%  
**UV/Vis.:** λ_{max} 229, 247, 272, 467 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years

*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

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**Laboratory Procedures**

M2I-1 is supplied as a crystalline solid. A stock solution may be made by dissolving the M2I-1 in the solvent of choice. M2I-1 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of M2I-1 in these solvents is approximately 25 mg/ml. M2I-1 is also slightly soluble in ethanol.

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**Description**

M2I-1 is an inhibitor of the interaction between spindle assembly checkpoint protein MAD2 and CDC20, a coactivator of the anaphase promoting complex/cyclosome (APC/C). In vitro, M2I-1 (6.25-100 μM) inhibits MAD2 binding to GST-CDC20 in a concentration-dependent manner. M2I-1 also reduces mitotic duration in HeLa cells treated with paclitaxel (Item No. 10461) at a concentration of 25 μM.

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**Reference**