



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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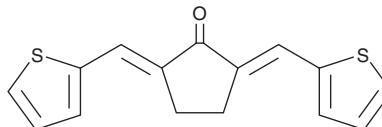
# PRODUCT INFORMATION



**CCT007093**

Item No. 19992

**CAS Registry No.:** 176957-55-4  
**Formal Name:** 2E,5E-bis(2-thienylmethylene)-cyclopentanone  
**MF:** C<sub>15</sub>H<sub>12</sub>OS<sub>2</sub>  
**FW:** 272.4  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 255, 388 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



## Laboratory Procedures

CCT007093 is supplied as a crystalline solid. A stock solution may be made by dissolving the CCT007093 in the solvent of choice. CCT007093 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of CCT007093 in these solvents is approximately 1 mg/ml.

CCT007093 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CCT007093 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. CCT007093 has a solubility of approximately 0.33 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

## Description

CCT007093 is an inhibitor of protein phosphatase 1D (PPM1D, also known as PP2Cδ and WIP1; IC<sub>50</sub> = 8.4 μM), which is encoded by a putative oncogene that is amplified in multiple cancer types.<sup>1</sup> It does not inhibit PPM1A. CCT007093 selectively inhibits the growth of cancer cells that overexpress PPM1D, including MCF-7, KPL-1, and MCF-3B cells, as well as certain ovarian clear cell carcinoma cells.<sup>1,2</sup> CCT007093 has been used to elucidate the mechanism by which PPM1D drives growth in medulloblastoma cells.<sup>3</sup>

## References

1. Rayter, S., Elliott, R., Travers, J., *et al.* A chemical inhibitor of PPM1D that selectively kills cells overexpressing PPM1D. *Oncogene* **27**(8), 1036-1044 (2008).
2. Tan, D. S. P., Labmbros, M. B. K., Rayter, S., *et al.* PPM1D is a potential therapeutic target in ovarian clear cell carcinomas. *Clin. Cancer. Res* **15**(7), 2269-2280 (2009).
3. Buss, M. C., Read, T.-A., Schniederjan, M. J., *et al.* HDM2 promotes WIP1-mediated medulloblastoma growth. *Neuro. Oncol.* **14**(4), 440-458 (2012).

### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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