



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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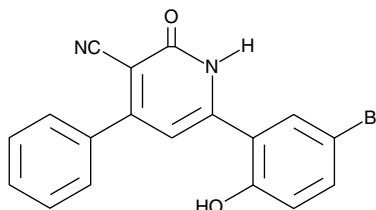
# Product Information



## TCS PIM-1 1

Item No. 16286

**CAS Registry No.:** 491871-58-0  
**Formal Name:** 6-(5-bromo-2-hydroxyphenyl)-1,2-dihydro-2-oxo-4-phenyl-3-pyridinecarbonitrile  
**Synonyms:** Pim-1 Kinase Inhibitor II, SC 204330  
**MF:** C<sub>18</sub>H<sub>11</sub>BrN<sub>2</sub>O<sub>2</sub>  
**FW:** 367.2  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 370 nm



### Laboratory Procedures

For long term storage, we suggest that TCS PIM-1 1 be stored as supplied at -20°C. It should be stable for at least two years.

TCS PIM-1 1 is supplied as a crystalline solid. A stock solution may be made by dissolving the TCS PIM-1 1 in the solvent of choice. TCS PIM-1 1 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of TCS PIM-1 1 in these solvents is approximately 30 and 20 mg/ml, respectively.

TCS PIM-1 1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, TCS PIM-1 1 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. TCS PIM-1 1 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

The proto-oncogene serine/threonine-protein kinases, Pim-1 and Pim-2, are enzymes involved in cytokine signaling and participate in various signal transduction pathways, including cell growth, differentiation, and apoptosis. Their overexpression has been implicated in prostate cancer, some forms of leukemia, and lymphoma. TCS PIM-1 1 is an ATP-competitive Pim-1 kinase inhibitor (IC<sub>50</sub> = 50 nM) that displays selectivity over the related kinases, Pim-2 and MEK1/2 (IC<sub>50</sub>s = >20 μM).<sup>1</sup>

### Reference

1. Cheney, I.W., Yan, S., Appleby, T., *et al.* Identification and structure-activity relationships of substituted pyridones as inhibitors of Pim-1 kinase. *Bioorg. Med. Chem. Lett.* **17**(6), 1679-1683 (2007).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/16286](http://www.caymanchem.com/catalog/16286)

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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.**

#### SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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