



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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# PRODUCT INFORMATION

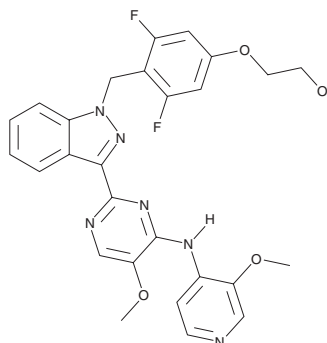


## BAY-1816032

Item No. 35095

**CAS Registry No.:** 1891087-61-8  
**Formal Name:** 2-[3,5-difluoro-4-[[3-[5-methoxy-4-[(3-methoxy-4-pyridinyl)amino]-2-pyrimidinyl]-1H-indazol-1-yl]methyl]phenoxy]-ethanol

**MF:** C<sub>27</sub>H<sub>24</sub>F<sub>2</sub>N<sub>6</sub>O<sub>4</sub>  
**FW:** 534.5  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 217, 257, 309 nm  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years



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

### Laboratory Procedures

BAY-1816032 is supplied as a solid. A stock solution may be made by dissolving the BAY-1816032 in the solvent of choice, which should be purged with an inert gas. BAY-1816032 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of BAY-1816032 in these solvents is approximately 10 and 14 mg/ml, respectively. BAY-1816032 is slightly soluble in ethanol.

### Description

BAY-1816032 is an inhibitor of the mitotic checkpoint serine/threonine protein kinase BUB1 (IC<sub>50</sub> = 6.1 nM).<sup>1</sup> It is selective for BUB1 over FLT3 (IC<sub>50</sub> = 4.2 μM) and 15 other kinases (IC<sub>50</sub>s = >10 μM for all). BAY-1816032 inhibits proliferation of a variety of cancer cells (median IC<sub>50</sub> = 1.4 μM) and acts synergistically with the mitotic inhibitor paclitaxel (Item No. 10461) to increase the rate of chromosomal segregation defects during mitosis in HeLa cells. It reduces tumor growth in a SUM149 mouse xenograft model when administered at a dose of 25 mg/kg and has an additive effect on reducing tumor growth when used in combination with paclitaxel in the same model.

### Reference

- Siemeister, G., Mengel, A., Fernández-Montalván, A.E., *et al.* Inhibition of BUB1 kinase by BAY 1816032 sensitizes tumor cells toward taxanes, ATR, and PARP inhibitors *in vitro* and *in vivo*. *Clin. Cancer Res.* **25**(4), 1404-1414 (2019).

#### 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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