



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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# PRODUCT INFORMATION



**BI-847325**

Item No. 18301

**CAS Registry No.:** 1207293-36-4

**Formal Name:** 3-[3-[[[4-[(dimethylamino)methyl]phenyl]amino]phenylmethylene]-2,3-dihydro-2-oxo-1H-indol-6-yl]-N-ethyl-2-propynamide

**MF:** C<sub>29</sub>H<sub>28</sub>N<sub>4</sub>O<sub>2</sub>

**FW:** 464.6

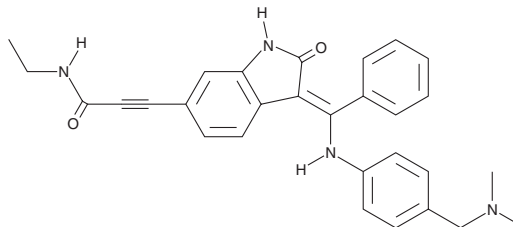
**Purity:** ≥98%

**UV/Vis.:** λ<sub>max</sub>: 298, 398 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

BI-847325 is supplied as a crystalline solid. A stock solution may be made by dissolving the BI-847325 in the solvent of choice. BI-847325 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of BI-847325 in these solvents is approximately 0.3, 5, and 16 mg/ml, respectively.

BI-847325 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BI-847325 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. BI-847325 has a solubility of approximately 0.14 mg/ml in a 1:6 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

## Description

BI-847325 is a selective dual MEK/Aurora kinase inhibitor with IC<sub>50</sub> values of 3, 25, 15, 25, and 4 nM for *X. laevis* Aurora B, human Aurora A and Aurora C, and human MEK1 and MEK2, respectively.<sup>1</sup> It can inhibit the growth and survival of both treatment-naïve and drug-resistant melanoma cell lines, decreasing the expression of MEK and Mcl-1 while increasing the expression of pro-apoptotic protein Bim.<sup>1</sup> At 70 mg/kg, BI-847325 induces apoptosis in treatment-naïve and drug-resistant xenografted melanoma *in vivo*.<sup>1</sup>

## Reference

1. Phadke, M.S., Sini, P., and Smalley, K.S.M. The novel ATP-competitive MEK/aurora kinase inhibitor BI-847325 overcomes acquired BRAF inhibitor resistance through suppression of Mcl-1 and MEK expression. *Mol. Cancer Ther.* **14**(6), 1354-1364 (2015).

### 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.

### WARRANTY AND LIMITATION OF REMEDY

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