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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)



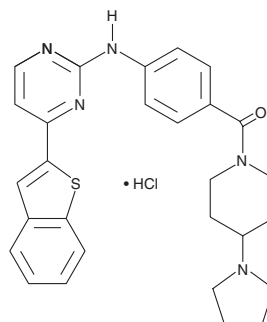
PRODUCT INFORMATION



IKK-16 (hydrochloride)

Item No. 13313

CAS Registry No.: 1186195-62-9
Formal Name: [4-[(4-benzo[b]thien-2-yl-2-pyrimidinyl)amino]phenyl]
[4-(1-pyrrolidinyl)-1-piperidinyl]-
methanone, monohydrochloride
Synonym: IKK Inhibitor VII
MF: C₂₈H₂₉N₅OS • HCl
FW: 520.1
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 209, 263, 309 nm



Laboratory Procedures

For long term storage, we suggest that IKK-16 (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

IKK-16 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the IKK-16 (hydrochloride) in the solvent of choice. IKK-16 (hydrochloride) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of IKK-16 (hydrochloride) in these solvents is approximately 10 and 5 mg/ml, respectively.

IKK-16 (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, IKK-16 (hydrochloride) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. IKK-16 (hydrochloride) has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

IKK-16 is a potent inhibitor of IκB kinases (IKKs), displaying IC₅₀ values of 200, 40, and 70 nM for IKKα, IKKβ, and IKK complex, respectively, in cell-free assays.¹ It is effective in cells and in animals and has been used delineate the role of NF-κB signaling in diverse contexts.²⁻⁵ IKK-16 has also been reported to inhibit protein kinase D isoforms and the ATP-binding cassette (ABC) transporter ABCB1.^{6,7}

References

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2. Coldewey, S.M., Rogazzo, M., Collino, M., *et al. Dis. Model Mech.* **6**, 1031-1042 (2013).
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5. Sordi, R., Chiazza, F., Johnson, F.L., *et al. Mol. Med.* (2015).
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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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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM