

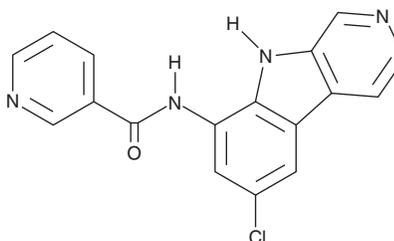
PRODUCT INFORMATION



PS-1145

Item No. 14862

CAS Registry No.: 431898-65-6
Formal Name: N-(6-chloro-9H-pyrido[3,4-b]indol-8-yl)-3-pyridinecarboxamide
Synonyms: IKK Inhibitor X
MF: C₁₇H₁₁ClN₄O
FW: 322.8
Purity: ≥98%
UV/Vis.: λ_{max}: 239, 293, 364 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



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

Description

PS-1145 is an IκB kinase β (IKKβ) inhibitor (IC₅₀ = 88 nM).¹ It selectively inhibits IKKβ over a panel of 14 kinases (IC₅₀s = >100 nM for all). PS-1145 also inhibits the IKK complex (IC₅₀ = 100 nM).² It inhibits the proliferation of MM.1S, U266, and RPMI-8226 myeloma cells when used at concentrations ranging from 1.5 to 50 μM. PS-1145 inhibits TNF-α-induced activation of NF-κB in MM.1S cells in a concentration-dependent manner. It inhibits RANKL-induced differentiation of RAW 264.7 cells into osteoclasts when used at concentrations of 5 and 10 μM.³ PS-1145 (10 μM) inhibits RANKL-induced phosphorylation of IκBα, ERK, and JNK in RAW 264.7 cells.

References

1. Hideshima, T., Chauhan, D., Richardson, P., *et al.* NF-κB as a therapeutic target in multiple myeloma. *The Journal of Biological Chemistry* **277**(19), 16639-16647 (2002).
2. Castro, A.C., Dang, L.C., Soucy, F., *et al.* Novel IKK inhibitors: β-carbolines. *Bioorg. Med. Chem. Lett.* **13**(14), 2419-2422 (2003).
3. Tsunekage, Y., Takeiri, M., Yoshioka, Y., *et al.* *Nasturtium officinale* extract suppresses osteoclastogenesis in RAW 264 cells by inhibiting IκB-kinase β. *Nat. Prod. Commun.* **16**(6), 1-9 (2021).

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