

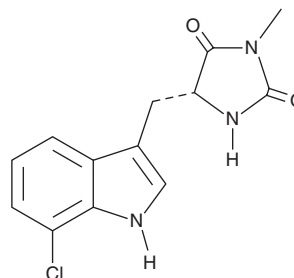
PRODUCT INFORMATION



Necrostatin-2

Item No. 11657

CAS Registry No.: 852391-19-6
Formal Name: 5R-[(7-chloro-1H-indol-3-yl)methyl]-3-methyl-2,4-imidazolidinedione
Synonyms: Cl-Necrostatin analog, Nec-2
MF: C₁₃H₁₂ClN₃O₂
FW: 277.7
Purity: ≥98%
UV/Vis.: λ_{max}: 222, 283 nm
Supplied as: A crystalline 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

Necrostatin-2 is supplied as a crystalline solid. A stock solution may be made by dissolving the necrostatin-2 in the solvent of choice, which should be purged with an inert gas. Necrostatin-2 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of necrostatin-2 in these solvents is approximately 3, 14, and 20 mg/ml, respectively.

Necrostatin-2 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, necrostatin-2 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Necrostatin-2 has a solubility of approximately 0.50 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Necrostatin-2 is a potent inhibitor of necroptosis with an EC₅₀ of 50 nM in Jurkat T cells deficient of Fas-associated protein with death domain (FADD) and treated with TNF-α.¹ It is approximately 4-fold more active than the (S)-enantiomer (EC₅₀ = 230 nM).

Reference

1. Teng, X., Degtarev, A., Jagtap, P., *et al.* Structure-activity relationship study of novel necroptosis inhibitors. *Bioorg. Med. Chem. Lett.* **15(22)**, 5039-5044 (2005).

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

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 04/20/2023

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