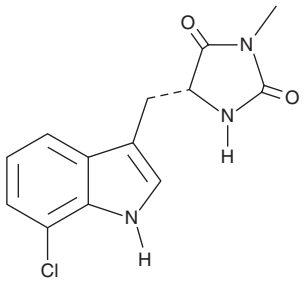
PRODUCT INFORMATION

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:	$C_{13}H_{12}ClN_3O_2$
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 EC_{50} 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 (EC_{50} = 230 nM).

Reference

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

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