Product datasheet

Necrostatin-1, necroptosis inhibitor ab141053

Overview

Product name: Necrostatin-1, necroptosis inhibitor

Description: Potent, specific necroptosis inhibitor

Biological description: Potent, specific necroptosis inhibitor \((EC_{50} = 490 \text{ nM})\). Selective allosteric inhibitor of death domain receptor-associated adaptor kinase RIP1 \textit{in vitro} \((EC_{50} = 182 \text{ nM})\). Caspase independent, programmed necrosis pathway.

Purity: > 99%

CAS Number: 4311-88-0

Chemical structure:

![Chemical structure image]

Properties

Chemical name: 5-(1H-Indol-3-ylmethyl)-3-methyl-2-thioxo-4-imidazolidinone

Molecular weight: 259.33

Molecular formula: \(C_{13}H_{13}N_{3}OS\)

PubChem identifier: 2828334

Storage instructions: Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview: Soluble in ethanol to 50 mM and in DMSO to 100 mM

Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES: \(S=\text{C3NC(Cc1cnc2cccc12)C(=O)N3C}\)
Necroptosis exists in PDLSCs.

TEM, a representative normal cell (the cell had a long fusiform, cell membrane structure was complete, the nucleus was round, nucleolus was obvious and center), b representative necroptosis cell (cell membrane ruptured, organelle disappeared, chromatin consolidated and agglutinated, presenting necrotic ultrastructural characteristics), c representative necrosis cell after Nec-1 inhibited (the cell membrane was intact, and the chromatin structure returned to normal).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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