



Certificate of Analysis

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Product Name: Necrosulfonamide Catalog No.: 5025 Batch No.: 2

CAS Number: 1360614-48-7

IUPAC Name: (2E)-N-[4-[[(3-Methoxy-2-pyrazinyl)amino]sulfonyl]phenyl]-3-(5-nitro-2-thienyl)-2-propenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{15}N_5O_6S_2.\frac{1}{2}H_2O$

Batch Molecular Weight: 470.48

Physical Appearance: Yellow solid

Solubility: DMSO to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogon N

Theoretical 45.95 3.43 14.89

Carbon Hydrogen Nitrogen

Found 46.35 3.19 14.5

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Product Information

Print Date: Feb 18th 2020

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IUPAC Name: (2E)-N-[4-[[(3-Methoxy-2-pyrazinyl)amino]sulfonyl]phenyl]-3-(5-nitro-2-thienyl)-2-propenamide

Description:

Necroptosis inhibitor. Blocks mixed lineage kinase domain-like protein (MLKL), a critical substrate of receptor-interacting serine-threonine kinase 3 (RIP3) during necrosis. Prevents MLKL-RIP1-RIP3 necrosome complex from interacting with downstream necrosis effectors. Binds and inhibits gasdermin D. Inhibits pyroptosis.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₈H₁₅N₅O₆S₂.½H₂O

Batch Molecular Weight: 470.48 Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Pandeya et al (2019) Gasdermin D (GSDMD) as a new target for the treatment of infection. Medchemcomm 10 660. PMID: 31191857.

Kreuzaler et al (2012) Killing a cancer: what are the alternatives? Nat.Rev.Cancer. 12 411. PMID: 22576162.

Sun et al (2012) Mixed lineage kinase domain-like protein mediates necrosis signaling downstream of RIP3 kinase. Cell 148 213. PMID: 22265413.

Zhou et al (2012) New components of the necroptotic pathway. Protein Cell 3 811. PMID: 23073834.