



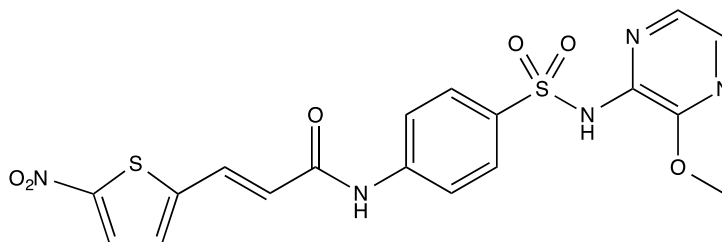
Catalog # 10-4860

Necrosulfonamide

CAS# 1360614-48-7

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

Lot # FBS2172



Specifically blocks necroptosis downstream of RIP3 activation by preventing MLKL-RIP3 interaction.¹ Displays neuroprotective effects after ischemic brain injury.² Prevents cystine-starvation-induced necroptosis and ferroptosis in human triple negative breast cancer cells.³ Binds to gasdermin D inhibiting pyroptosis and associated inflammatory cell death and sepsis.⁴ Rescues cells from TLR3 ligand-induced death.⁵

- 1) Sun *et al.* (2012) *Mixed lineage kinase domain-like protein mediates necrosis signaling downstream of RIP3 kinase*; Cell **148** 213
- 2) Zhou *et al.* (2017) *The degradation of mixed lineage kinase domain-like protein promotes neuroprotection after ischemic brain injury*; Oncotarget, **8** 68393
- 3) Chen *et al.* (2017) *CHAC1 degradation of glutathione enhances cysteine-starvation-induced necroptosis and ferroptosis in human triple negative breast cancer cells via the GCN2-eIF2 α -ATF4 pathway*; Oncotarget, **8** 114588
- 4) Rathkey *et al.* (2018) *Chemical disruption of the pyroptotic pore-forming protein gasdermin D inhibits inflammatory cell death and sepsis*; Sci Immunol., **3** eaat2738
- 5) Cuchet-Lourenco *et al.* (2018) *Biallelic RIPK1 mutations in humans cause severe immunodeficiency, arthritis, and intestinal inflammation*; Science, **361** 810

PHYSICAL DATA

Molecular Weight: 461.47
Molecular Formula: C₁₈H₁₅N₅O₆S₂
Purity: 98% by HPLC
NMR: (Conforms)
Solubility: DMSO (10 mg/ml)
Physical Description: Yellow solid
Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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