



LKT Laboratories, Inc.

Necrosulfonamide

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Product Information

Product ID N164104

CAS No. 1360614-48-7

Chemical Name

Synonym

Formula $C_{18}H_{15}N_5O_6S_2$

Formula Wt. 461.5

Melting Point

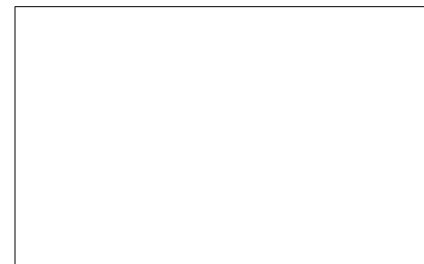
Purity $\geq 98\%$

Solubility

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Necrosulfonamide (NSA) is a covalent small-molecule inhibitor that selectively targets MLKL (Mixed Lineage Kinase Domain-Like pseudokinase), the terminal executioner of the necroptosis pathway. NSA alkylates the Cys86 residue in the N-terminal domain of human MLKL, preventing its RIPK3-driven phosphorylation-dependent oligomerization and plasma membrane translocation. By blocking necroptosis at the point of MLKL activation, NSA is an important complement to RIPK1/RIPK3 inhibitors for dissecting programmed necrotic cell death signaling.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
N164104	5 mg	\$55.00
N164104	25 mg	\$125.00
N164104	100 mg	\$300.00

- References**
1. Sun L, Wang H, Wang Z, et al. Mixed lineage kinase domain-like protein mediates necrosis signaling downstream of RIP3 kinase. *Cell*. 2012;148(1-2):213-27. PMID: 22265413.
 2. Wang H, Sun L, Su L, et al. Mixed lineage kinase domain-like protein MLKL causes necrotic membrane disruption upon phosphorylation by RIP3. *Mol Cell*. 2014;54(1):133-46. PMID: 24703947.
 3. Murphy JM, Czabotar PE, Hildebrand JM, et al. The pseudokinase MLKL mediates necroptosis via a molecular switch mechanism. *Immunity*. 2013;39(3):443-53. PMID: 24012422.
 4. Galluzzi L, Vitale I, Aaronson SA, et al. Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. *Cell Death Differ*. 2018;25(3):486-541. PMID: 29362479.
 5. Vanden Berghe T, Linkermann A, Jouan-Lanhoutet S, et al. Regulated necrosis: the expanding network of non-apoptotic cell death pathways. *Nat Rev Mol Cell Biol*. 2014;15(2):135-47. PMID: 24452471.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.