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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

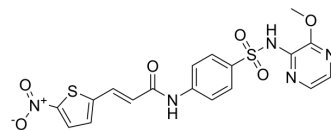
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Necrosulfonamide

Cat. No.:	HY-100573
CAS No.:	1360614-48-7
Molecular Formula:	C ₁₈ H ₁₅ N ₅ O ₆ S ₂
Molecular Weight:	461.47
Target:	Mixed Lineage Kinase
Pathway:	MAPK/ERK Pathway
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 28 mg/mL (60.68 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.1670 mL	10.8349 mL	21.6699 mL
	5 mM		0.4334 mL	2.1670 mL	4.3340 mL
	10 mM		0.2167 mL	1.0835 mL	2.1670 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 50% PEG300 >> 50% saline
Solubility: 10 mg/mL (21.67 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 20% SBE-β-CD in saline
Solubility: 6.67 mg/mL (14.45 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (5.42 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (5.42 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (5.42 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Necrosulfonamide is a necroptosis inhibitor acting by selectively targeting the mixed lineage kinase domain-like protein (MLKL). Necrosulfonamide prevents MLKL-RIP1-RIP3 necrosome complex from interacting with its downstream effectors.

	MLKL is a critical substrate of RIP3 during the induction of necrosis ^[1] .
In Vitro	Necrosulfonamide specifically blocks necrosis downstream of RIP3 activation. Necrosulfonamide inhibits MLKL-mediated necrosis by blocking its N-terminal CC domain function ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Res. 2023 Aug 14.
- Circulation. 2022 Nov 30.
- Adv Mater. 2023 Jun;35(23):e2300548.
- Nat Cell Biol. 2023 Jun;25(6):836-847.
- Nat Commun. 2022 Nov 17;13(1):7031.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Sun L, et al. Mixed lineage kinase domain-like protein mediates necrosis signaling downstream of RIP3 kinase. Cell. 2012;148(1-2):213-227.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA