



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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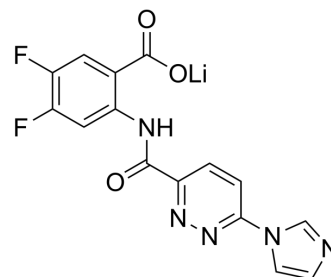
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## SR-717

|                    |                                                                                                                              |
|--------------------|------------------------------------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-131454                                                                                                                    |
| CAS No.:           | 2375421-09-1                                                                                                                 |
| Molecular Formula: | C <sub>15</sub> H <sub>8</sub> F <sub>2</sub> LiN <sub>5</sub> O <sub>3</sub>                                                |
| Molecular Weight:  | 351.19                                                                                                                       |
| Target:            | STING                                                                                                                        |
| Pathway:           | Immunology/Inflammation                                                                                                      |
| Storage:           | 4°C, sealed storage, away from moisture<br>* In solvent : -80°C, 2 years; -20°C, 1 year (sealed storage, away from moisture) |



## SOLVENT & SOLUBILITY

|                                                                               |                                                                                                                                                              |                                                      |           |            |            |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------|------------|------------|
| In Vitro                                                                      | DMSO : 20.83 mg/mL (59.31 mM; Need ultrasonic)<br>Methanol : 3.33 mg/mL (9.48 mM; Need ultrasonic)                                                           |                                                      |           |            |            |
|                                                                               | Preparing<br>Stock Solutions                                                                                                                                 | <div>Solvent<br/>Concentration</div> <div>Mass</div> | 1 mg      | 5 mg       | 10 mg      |
|                                                                               |                                                                                                                                                              | 1 mM                                                 | 2.8475 mL | 14.2373 mL | 28.4746 mL |
|                                                                               |                                                                                                                                                              | 5 mM                                                 | 0.5695 mL | 2.8475 mL  | 5.6949 mL  |
|                                                                               |                                                                                                                                                              | 10 mM                                                | 0.2847 mL | 1.4237 mL  | 2.8475 mL  |
| Please refer to the solubility information to select the appropriate solvent. |                                                                                                                                                              |                                                      |           |            |            |
| In Vivo                                                                       | 1. Add each solvent one by one: 50% PEG300 >> 50% saline<br>Solubility: 10 mg/mL (28.47 mM); Suspended solution; Need ultrasonic                             |                                                      |           |            |            |
|                                                                               | 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: 2.08 mg/mL (5.92 mM); Suspended solution; Need ultrasonic |                                                      |           |            |            |
|                                                                               | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.08 mg/mL (5.92 mM); Clear solution                                               |                                                      |           |            |            |
|                                                                               |                                                                                                                                                              |                                                      |           |            |            |

## BIOLOGICAL ACTIVITY

|             |                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | SR-717 is a non-nucleotide STING agonist with EC <sub>50</sub> s of 2.1 μM and 2.2 μM in ISG-THP1 (WT) and ISG-THP1 cGAS KO (cGAS KO) cell lines, respectively. SR-717 is a stable cyclic guanosine monophosphate-adenosine monophosphate (cGAMP) mimetic. Antitumor activity <sup>[1]</sup> .                                                                                             |
| In Vitro    | SR-717 activates STING by inducing the same closed conformation, which thereby provides an avenue to explore this class of systemic STING agonist in diverse contexts, including antitumor immunity <sup>[1]</sup> .<br>SR-717 (3.8 μM) induces the expression of PD-L1 in THP1 cells and in primary human peripheral blood mononuclear cells in a STING-dependent manner <sup>[1]</sup> . |

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

SR-717 (30 mg/kg intraperitoneal once-per-day for 1 week) shows antitumor activities in WT or Sting<sup>gt/gt</sup> mice<sup>[1]</sup>.  
SR-717 (30 mg/kg intraperitoneally for 7 days) displays antitumor activity; promotes the activation of CD8<sup>+</sup> T, natural killer, and dendritic cells in relevant tissues; and facilitates antigen cross-priming<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

|                 |                                                  |
|-----------------|--------------------------------------------------|
| Animal Model:   | WT or Sting <sup>gt/gt</sup> mice <sup>[1]</sup> |
| Dosage:         | 30 mg/kg                                         |
| Administration: | Intraperitoneally; once-per-day for 1 week       |
| Result:         | Maximally inhibited tumor growth.                |

## CUSTOMER VALIDATION

- Nat Commun. 2023 Aug 22;14(1):5111.
- Cell Death Differ. 2023 Nov 25.
- Sci Total Environ. 2023 Sep 22;167315.
- Clin Sci. 2023 Feb 23;CS20220728.
- Int J Pharm. 2023 Sep 22;123430.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Emily N Chin, et al. Antitumor activity of a systemic STING-activating non-nucleotide cGAMP mimetic. Science. 2020 Aug 21;369(6506):993-999.

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

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