# diABZI-C2-NH2

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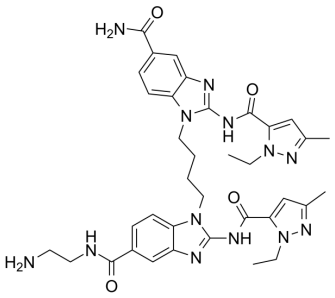
|---|---|
| **Cat. No.:** | HY-137320 |
| **CAS No.:** | 2137975-93-8 |
| **Molecular Formula:** | $C_{36}H_{43}N_{13}O_4$ |
| **Molecular Weight:** | 721.81 |
| **Target:** | STING |
| **Pathway:** | Immunology/Inflammation |
| **Storage:** | -20°C, stored under nitrogen<br>* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen) |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 100 mg/mL (138.54 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 1.3854 mL | 6.9270 mL | 13.8541 mL |
| | 5 mM | 0.2771 mL | 1.3854 mL | 2.7708 mL |
| | 10 mM | 0.1385 mL | 0.6927 mL | 1.3854 mL |

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

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (3.46 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.46 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

diABZI-C2-NH2, an active analogue containing a primary amine functionality, is a STING agonist[1].

**In Vitro**

The author developed a linking strategy to synergize the effect of two symmetry-related amidobenzimidazole (ABZI)-based compounds to create linked ABZIs (diABZIs) with enhanced binding to STING and cellular function. Intravenous administration of a diABZI STING agonist to immunocompetent mice with established syngeneic colon tumours elicited strong anti-tumour activity, with complete and lasting regression of tumors[1].
diABZI-C2-NH2 is covalently immobilized on sepharose beads and is used to affinity-capture potential target proteins from a THP1 cell lysate[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Ramanjulu JM, et al. Design of amidobenzimidazole STING receptor agonists with systemic activity [published correction appears in Nature. 2019 Jun;570(7761):E53]. Nature. 2018;564(7736):439-443.



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