



# SZABO SCANDIC

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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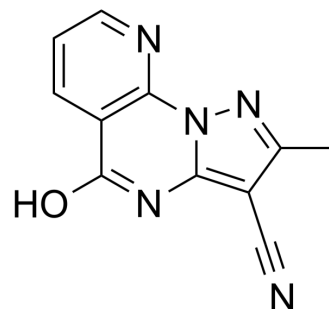
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## KDM4D-IN-1

|                    |                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-101928                                                                                                                                                                      |
| CAS No.:           | 2098902-68-0                                                                                                                                                                   |
| Molecular Formula: | C <sub>11</sub> H <sub>7</sub> N <sub>5</sub> O                                                                                                                                |
| Molecular Weight:  | 225.21                                                                                                                                                                         |
| Target:            | Histone Demethylase                                                                                                                                                            |
| Pathway:           | Epigenetics                                                                                                                                                                    |
| Storage:           | <div> <div>Powder</div> <div>-20°C    3 years</div> <div>4°C    2 years</div> </div> <div> <div>In solvent</div> <div>-80°C    2 years</div> <div>-20°C    1 year</div> </div> |



## SOLVENT & SOLUBILITY

|                                                                               |                                                                                                                                           |                                                       |      |           |            |            |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------|-----------|------------|------------|
| In Vitro                                                                      | DMSO : 7.14 mg/mL (31.70 mM; Need ultrasonic)                                                                                             |                                                       |      |           |            |            |
|                                                                               | Preparing Stock Solutions                                                                                                                 | <div><div>Solvent</div><div>Concentration</div></div> | Mass | 1 mg      | 5 mg       | 10 mg      |
|                                                                               |                                                                                                                                           | 1 mM                                                  |      | 4.4403 mL | 22.2015 mL | 44.4030 mL |
|                                                                               |                                                                                                                                           | 5 mM                                                  |      | 0.8881 mL | 4.4403 mL  | 8.8806 mL  |
|                                                                               |                                                                                                                                           | 10 mM                                                 |      | 0.4440 mL | 2.2201 mL  | 4.4403 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<br>Solubility: ≥ 0.71 mg/mL (3.15 mM); Clear solution |                                                       |      |           |            |            |
|                                                                               | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 0.71 mg/mL (3.15 mM); Clear solution            |                                                       |      |           |            |            |

## BIOLOGICAL ACTIVITY

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description               | KDM4D-IN-1 is a new histone lysine demethylase 4D (KDM4D) inhibitor with an IC <sub>50</sub> value of 0.41±0.03 μM.                                                                                                                                                                                                                                                                                                                   |
| IC <sub>50</sub> & Target | IC <sub>50</sub> : 0.41±0.03 μM (KDM4D) <sup>[1]</sup>                                                                                                                                                                                                                                                                                                                                                                                |
| In Vitro                  | <p>KDM4D-IN-1 (Compound 10r) is the most potent one with an IC<sub>50</sub> value of 0.41±0.03 μM against KDM4D. KDM4D-IN-1 displays almost no activity against KDM2B, KDM3B, and KDM5A (IC<sub>50</sub>&gt;10 μM), indicating that KDM4D-IN-1 has a good selectivity for KDM4D against other selected KDMs<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |

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## CUSTOMER VALIDATION

- Cell Death Discov. 2021 Oct 11;7(1):284.

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## REFERENCES

[1]. Fang Z, et al. Discovery of pyrazolo[1,5-a]pyrimidine-3-carbonitrile derivatives as a new class of histone lysine demethylase 4D (KDM4D) inhibitors. Bioorg Med Chem Lett. 2017 Jul 15;27(14):3201-3204.

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

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