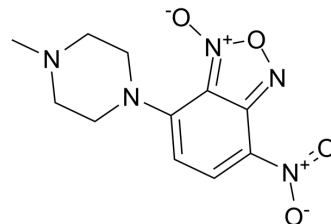


## NSC-207895

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-14714   |
| CAS No.:           | 58131-57-0   |
| Molecular Formula: | C <sub>11</sub> H <sub>13</sub> N <sub>5</sub> O <sub>4</sub>                                  |
| Molecular Weight:  | 279.25   |
| Target:            | MDM-2/p53  |
| Pathway:           | Apoptosis  |
| Storage:           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### SOLVENT & SOLUBILITY

|   |   |                          |           |            |            |
|---|---|--------------------------|-----------|------------|------------|
| In Vitro  | DMSO : 31.25 mg/mL (111.91 mM; ultrasonic and warming and heat to 60°C)   |                          |           |            |            |
|   |   | Solvent<br>Concentration | Mass      |            |            |
|   | Preparing<br>Stock Solutions  |                          | 1 mg      | 5 mg       | 10 mg      |
|   |   | 1 mM                     | 3.5810 mL | 17.9051 mL | 35.8102 mL |
|   |   | 5 mM                     | 0.7162 mL | 3.5810 mL  | 7.1620 mL  |
|   | 10 mM   | 0.3581 mL                | 1.7905 mL | 3.5810 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: ≥ 2.08 mg/mL (7.45 mM); Clear solution         |                          |           |            |            |
|   | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: 2.08 mg/mL (7.45 mM); Suspended solution; Need ultrasonic |                          |           |            |            |

### BIOLOGICAL ACTIVITY

|             |  |                  |
|-------------|--|------------------|
| Description | NSC-207895 (XI-006), a DNA damaging agent, is an anticancer agent and p53 activator <sup>[1][2][3]</sup> .   |                  |
| In Vitro    | NSC-207895 (0.5 μM, 30 min), a MDM2 inhibitor, upregulates p53 protein levels <sup>[2]</sup> .<br>NSC-207895, MDMX inhibitor, downregulates the expression of MDMX in AML cells at the mRNA and protein levels <sup>[3]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only.<br>Western Blot Analysis <sup>[2]</sup> |                  |
|             | Cell Line:   | RAW 264.7 cells. |
|             | Concentration:   | 0.5 μM.          |

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|                  |   |
|------------------|---|
| Incubation Time: | 30 min (stimulated with LPS (100 ng/ml) for 6 h). |
| Result:          | Upregulated p53 protein levels.                   |

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## REFERENCES

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- [1]. Laura Kapitzky, et al. Cross-species chemogenomic profiling reveals evolutionarily conserved drug mode of action. *Mol Syst Biol.* 2010 Dec 21;6:451.
- [2]. Erdenezaya Odkhuu, et al. Lipopolysaccharide downregulates the expression of p53 through activation of MDM2 and enhances activation of nuclear factor-kappa B. *Immunobiology.* 2015 Jan;220(1):136-41.
- [3]. Luis A Carvajal, et al. Dual inhibition of MDMX and MDM2 as a therapeutic strategy in leukemia. *Sci Transl Med.* 2018 Apr 11;10(436):eaao3003.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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