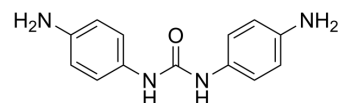


NSC 15364

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-108937 | | |
| CAS No.: | 4550-72-5 | | |
| Molecular Formula: | C ₁₃ H ₁₄ N ₄ O | | |
| Molecular Weight: | 242.28 | | |
| Target: | VDAC; Apoptosis | | |
| Pathway: | Membrane Transporter/Ion Channel; Apoptosis | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

| | | | | | |
|---|---|--------------------------|--------------|------------|------------|
| In Vitro | DMSO : 50 mg/mL (206.37 mM; Need ultrasonic) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 4.1275 mL | 20.6373 mL | 41.2746 mL |
| | | 5 mM | 0.8255 mL | 4.1275 mL | 8.2549 mL |
| 10 mM | | 0.4127 mL | 2.0637 mL | 4.1275 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 (10.32 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.59 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | NSC 15364 is an inhibitor of VDAC1 oligomerization and apoptosis ^[1] . |
| In Vitro | Mitochondrial membrane protein voltage-dependent anion channel 1 (VDAC1) oligomerization represents a prime target for agents designed to modulate apoptosis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

CUSTOMER VALIDATION

-
- Adv Sci (Weinh). 2023 Jan 15;e2203869.
 - Cardioasc Res. 2023 Aug 9;cvad120.
 - Cell Death Dis. 2023 May 13;14(5):325.
 - Cell Death Discov. 2023 Aug 15;9(1):297.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Ben-Hail D, et al. Novel Compounds Targeting the Mitochondrial Protein VDAC1 Inhibit Apoptosis and Protect against Mitochondrial Dysfunction. J Biol Chem. 2016 Nov 25;291(48):24986-25003.

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

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