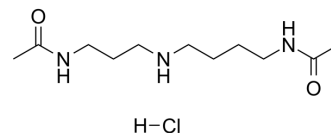


N1,N8-Diacetylspermidine hydrochloride

| | |
|---------------------------|--|
| Cat. No.: | HY-129912A |
| CAS No.: | 178244-42-3 |
| Molecular Formula: | C ₁₁ H ₂₄ ClN ₃ O ₂ |
| Molecular Weight: | 265.78 |
| Target: | Endogenous Metabolite |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | 4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



SOLVENT & SOLUBILITY

| | | | | | | |
|---|---|----------------------|-------------|-------------|-------------|--------------|
| In Vitro | DMSO : 83.33 mg/mL (313.53 mM; Need ultrasonic) | | | | | |
| | H ₂ O : 50 mg/mL (188.13 mM; Need ultrasonic) | | | | | |
| | Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
| | | Concentration | | | | |
| | | 1 mM | | 3.7625 mL | 18.8126 mL | 37.6251 mL |
| 5 mM | | | 0.7525 mL | 3.7625 mL | 7.5250 mL | |
| 10 mM | | 0.3763 mL | 1.8813 mL | 3.7625 mL | | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | |
| In Vivo | 1. Add each solvent one by one: PBS Solubility: 10 mg/mL (37.63 mM); Clear solution; Need ultrasonic | | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.83 mM); Clear solution | | | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.83 mM); Clear solution | | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | N1,N8-Diacetylspermidine hydrochloride is a polyamines in the human urine ^[1] . N1,N8-Diacetylspermidine hydrochloride is useful as prognostic indicators after treatment and during follow-up examination of cancer patients ^[2] . |
| IC₅₀ & Target | Human Endogenous Metabolite |

REFERENCES

[1]. Umemori Y, et al. Evaluating the utility of N1,N12-diacetylspermine and N1,N8-diacetylspermidine in urine as tumormarkers for breast and colorectal cancers. Clin Chim Acta. 2010 Dec 14;411(23-24):1894-9.

[2]. Hiramatsu K, et al. Diagnostic and prognostic usefulness of N1,N8-diacetylspermidine and N1,N12-diacetylsperminein urine as novel markers of malignancy. J Cancer Res Clin Oncol. 1997;123(10):539-45

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

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