

Product Data Sheet

Synephrine hydrochloride

Cat. No.: HY-N0132A CAS No.: 5985-28-4 Molecular Formula: $C_9H_{14}CINO_2$

Molecular Weight: 203.67

Target: Adrenergic Receptor; Endogenous Metabolite

Pathway: GPCR/G Protein; Neuronal Signaling; 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)

HCI

SOLVENT & SOLUBILITY

In Vitro

 H_2O : ≥ 100 mg/mL (490.99 mM) DMSO: ≥ 52 mg/mL (255.31 mM)

* "≥" means soluble, but saturation unknown.

| Preparing Stock Solutions | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg |
|------------------------------|-------------------------------|-----------|------------|------------|
| | 1 mM | 4.9099 mL | 24.5495 mL | 49.0990 mL |
| | 5 mM | 0.9820 mL | 4.9099 mL | 9.8198 mL |
| | 10 mM | 0.4910 mL | 2.4550 mL | 4.9099 mL |

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

BIOLOGICAL ACTIVITY

| In Vivo | Synephrine (1 mg/kg; oral gavage; for 8 days; PVL and BDL rats) significantly ameliorates the hyperdynamic state in both PVL and BDL rats. The portal venous pressure in PVL and BDL rats, portal tributary blood flow and cardiac index are significantly | | |
|---------|--|--|--|
| | | reduced, while mean arterial pressure and systemic as well as portal territory vascular resistance are enhanced by treatment | |
| | MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | |
| | Animal Model: | Portal vein ligation (PVL) or bile duct ligation (BDL) rats ^[2] | |
| | | | |

| Administration: | Oral gavage; for 8 days |
|-----------------|--|
| Result: | The portal venous pressure in PVL and BDL rats, portal tributary blood flow and cardiac index were significantly reduced, while mean arterial pressure and systemic as well as portal territory vascular resistance were enhanced. |

REFERENCES

[1]. Thomas JE, et al. STEMI in a 24-year-old man after use of a synephrine-containing dietary supplement: a case report and review of the literature. Tex Heart Inst J. 2009;36(6):586-90.

[2]. Huang YT, et al. Hemodynamic effects of synephrine treatment in portal hypertensive rats. Jpn J Pharmacol. 2001 Feb;85(2):183-8.

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

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