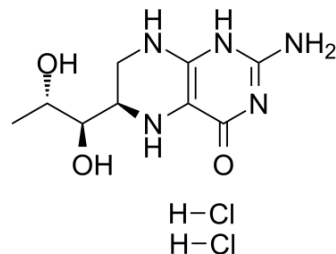


Sapropterin dihydrochloride

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-A0124A | | |
| CAS No.: | 69056-38-8 | | |
| Molecular Formula: | C ₉ H ₁₇ Cl ₂ N ₅ O ₃ | | |
| Molecular Weight: | 314.17 | | |
| Target: | Others | | |
| Pathway: | Others | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (397.87 mM; Need ultrasonic)

| Concentration | Mass | | |
|---------------|-----------|------------|------------|
| | 1 mg | 5 mg | 10 mg |
| 1 mM | 3.1830 mL | 15.9150 mL | 31.8299 mL |
| 5 mM | 0.6366 mL | 3.1830 mL | 6.3660 mL |
| 10 mM | 0.3183 mL | 1.5915 mL | 3.1830 mL |

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

BIOLOGICAL ACTIVITY

Description

Sapropterin ((6R)-BH₄) dihydrochloride is a synthetic form of BH₄ that is approved for the treatment of BH₄ responsive PKU. (1) Sapropterin dihydrochloride can stimulate TH and TPH activities leading to improved dopamine and serotonin synthesis despite persistently elevated brain phenylalanine. (2) Sapropterin dihydrochloride is used to lower blood phenylalanine levels in tetrahydrobiopterin-responsive phenylketonuria in conjunction with a phenylalanine-restricted diet.

CUSTOMER VALIDATION

- Mol Cell. 2020 Jan 2;77(1):95-107.e5.

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REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA