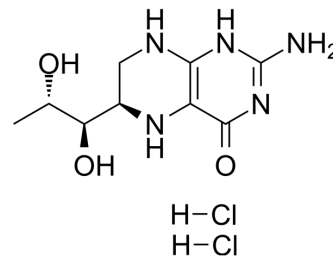


Sapropterin dihydrochloride

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:	4°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 200 mg/mL (636.60 mM)
 H₂O : 100 mg/mL (318.30 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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.

In Vivo

1. Add each solvent one by one: PBS
 Solubility: 100 mg/mL (318.30 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Sapropterin ((6R)-BH₄) is an orally active phenylalanine hydroxylase (PAH) cofactor, which is effective in reducing blood phenylalanine concentrations. Sapropterin also drives autoimmunity. Sapropterin can be used in study of phenylketonuria (PKU)^{[1][2]}.

In Vivo

Sapropterin (2 mg/kg/d, p.o., 19 d) aggravates experimental autoimmune encephalomyelitis (EAE) in mice^[2].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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

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REFERENCES

- [1]. Sanford M, et al. Sapropterin: a review of its use in the treatment of primary hyperphenylalaninaemia. *Drugs*. 2009;69(4):461-76.
- [2]. Schmitz K, et al. Sapropterin (BH4) Aggravates Autoimmune Encephalomyelitis in Mice. *Neurotherapeutics*. 2021 Jul;18(3):1862-1879.
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Caution: Product has not been fully validated for medical applications. For research use only.

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