7,8,9,10-Tetrahydrobenzo[pqr]tetraphen-7-ol

Cat. No.: HY-W011640

CAS No.: 6272-55-5

Molecular Formula: $C_{20}H_{16}O$

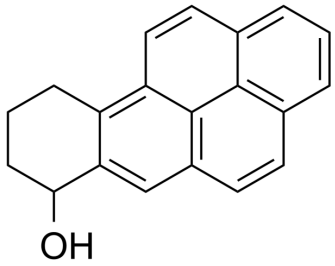
Molecular Weight: 272.34

Target: Others

Pathway: Others

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (917.97 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.6719 mL	18.3594 mL	36.7188 mL
	5 mM	0.7344 mL	3.6719 mL	7.3438 mL
	10 mM	0.3672 mL	1.8359 mL	3.6719 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: ≥ 2.08 mg/mL (7.64 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (7.64 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

7,8,9,10-Tetrahydrobenzo[a]pyren-7-ol is a benzopyrene derivative that is activated by hepatic cytosol into electrophilic sulfuric acid esters[1], which are capable of forming covalent DNA adducts and inducing mutations[2].

REFERENCES

[1]. Glatt H, Pauly K, Frank H, Seidel A, Oesch F, Harvey RG, Werle-Schneider G. Substance-dependent sex differences in the activation of benzylic alcohols to mutagens by hepatic sulfotransferases of the rat. Carcinogenesis. 1994 Nov;15(11):2605-11.

[2]. Surh YJ, Tannenbaum SR. Sulfotransferase-mediated activation of 7,8,9,10-tetrahydro-7-ol, 7,8-dihydrodiol, and 7,8,9,10-tetraol derivatives of benzo[a]pyrene. Chem

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