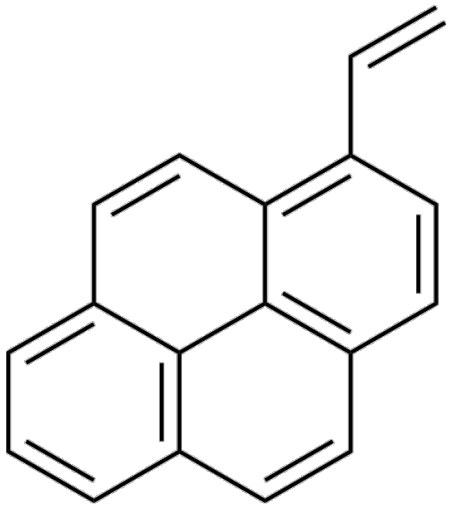
Product Data Sheet

Product Name: 1-Ethenylpyrene
Cat. No.: GC74704

Chemical Properties

Cas. No.	17088-21-0		
Formula	$C_{18}H_{12}$	M.Wt	228.29
Solubility	DMSO : 100 mg/mL (438.04 mM; ultrasonic and warming and heat to 60°C)	Storage	4°C, sealed storage, away from moisture and light
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

1-Ethenylpyrene (1-Vinylpyrene) is an anti-chemical carcinogen that inhibits the formation of skin tumors initiated by either DMBA or Benzo[a]pyrene .

Application of 44 nmol of 1-Ethenylpyrene (1-Vinylpyrene) inhibits tumor initiation by 10 nmol of DMBA approximately 30%; application of 4.4 µmol of 1-Ethenylpyrene (1-Vinylpyrene) inhibits tumor initiation by 200 nmol of Benzo[a]pyrene approximately 56%[1].

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

[1]. W L Alworth, et al. Potent inhibitory effects of suicide inhibitors of P450 isozymes on 7,12-dimetlbenz[a]anthracene and benzo[a]pyrene initiated skin tumors. Carcinogenesis. 1991 Jul;12(7):1209-15.

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