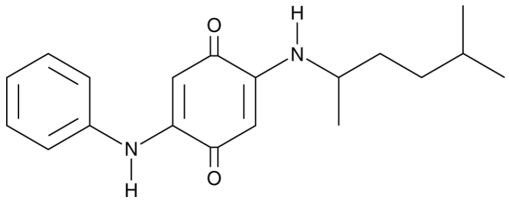
Product Data Sheet

Product Name: 7-PPD-Q
Cat. No.: GC91624

Chemical Properties

Cas. No.	2894124-00-4		
Formula	$C_{19}H_{24}N_2O_2$	M.Wt	312.4
Solubility	Chloroform: Soluble ≥10 mg/ml	Storage	-20°C
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

7-PPD-Q is an oxidized derivative of the tire antiozonant and a substituted *p*-phenylenediamine 7-PPD.[1] It is toxic to the bacterium *V. fischeri* (EC_{50} = 14.9 mg/L). It has been found in fine particulate matter 2.5 ($PM_{2.5}$) samples collected at the roadside in China. [2]

References:
[1].Wang, W., Chen, Y., Fang, J., et al.Toxicity of substituted p-phenylenediamine antioxidants and their derived novel quinones on aquatic bacterium: Acute effects and mechanistic insightsJ. Hazard. Mater.469:133900(2024).
[2].Wang, W., Cao, G., Zhang, J., et al.Beyond substituted p-phenylenediamine antioxidants: Prevalence of their quinone derivatives in PM[2].5Environ. Sci. Technol.56(15)10629-10637(2022).

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