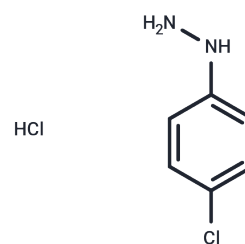


4-Chlorophenylhydrazine hydrochloride

Chemical Properties

CAS No. :	1073-70-7
Formula:	C ₆ H ₈ Cl ₂ N ₂
Molecular Weight:	179.05
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	4-Chlorophenylhydrazine hydrochloride (p-Chlorophenylhydrazine HCl) is used as a pharmaceutical intermediate.
Targets(IC50)	Others
Kinase Assay	ERK Inhibition Assay: Compounds are assayed for the inhibition of ERK2 by a spectrophotometric coupled-enzyme assay. In this assay, a fixed concentration of activated ERK2 (10 nM) is incubated with various concentrations of the compounds in DMSO (2.5%) for 10 min. at 30 °C in 0.1 M HEPES buffer, pH = 7.5, containing 10 mM MgCl ₂ , 2.5 mM phosphoenolpyruvate, 200 μM NADH, 150 μg/mL pyruvate kinase, 50 μg/mL lactate dehydrogenase and 200 μM erktide peptide. The reaction is initiated by the addition of 65 μM ATP. The rate of decrease of absorbance at 340 nM is monitored. The IC ₅₀ is evaluated from the data as a function of inhibitor concentr

Solubility Information

Solubility	DMSO: 55 mg/mL (307.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.585 mL	27.9252 mL	55.8503 mL
5 mM	1.117 mL	5.585 mL	11.1701 mL
10 mM	0.5585 mL	2.7925 mL	5.585 mL
50 mM	0.1117 mL	0.5585 mL	1.117 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Mahy, J., Gaspard, S., Delaforge, M., & Mansuy, D. (1994). Reactions of Prostaglandin H Synthase with Monosubstituted Hydrazines and Diazenes. Formation of Iron(II)-Diazene and Iron(III)-sigma-Alkyl or Iron(III)-sigma-Aryl Complexes. *European Journal Of Biochemistry*, 226(2), 445-457. doi: 10.1111/j.1432-1033.1994.tb20069.x

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