

Diphenylcarbazide

Chemical Properties

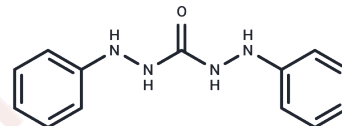
CAS No. : 140-22-7

Formula: C₁₃H₁₄N₄O

Molecular Weight: 242.28

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Diphenylcarbazide is a colorimetric reagent that can be used for the determination of trace metals.
Targets(IC50)	Others
In vitro	Diphenylcarbazide can be used as a modifier for the functional modification of carbon paste electrodes, thereby enabling the detection of Hg(II) ions by differential pulse voltammetry [1].

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1275 mL	20.6373 mL	41.2746 mL
5 mM	0.8255 mL	4.1275 mL	8.2549 mL
10 mM	0.4127 mL	2.0637 mL	4.1275 mL
50 mM	0.0825 mL	0.4127 mL	0.8255 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Švancara I, et al. Hg(II) voltammetry on a 1,5-diphenylcarbazide containing carbon paste electrode. *Electroanalysis*. 1991;3(8):747-752.

Calderilla C, Maya F, Cerdà V, Leal LO. 3D printed device for the automated preconcentration and determination of chromium (VI). *Talanta*. 2018 Jul 1;184:15-22. doi: 10.1016/j.talanta.2018.02.065. Epub 2018 Feb 16. PubMed PMID: 29674027.

Lotlikar NP, Damare SR, Meena RM, Linsy P, Mascarenhas B. Potential of Marine-Derived Fungi to Remove Hexavalent Chromium Pollutant from Culture Broth. *Indian J Microbiol*. 2018 Jun;58(2):182-192. doi: 10.1007/s12088-018-0719-z. Epub 2018 Mar 12. PubMed PMID: 29651177; PubMed Central PMCID: PMC5891482.

Faghihian H, Adibmehr Z. Comparative performance of novel magnetic ion-imprinted adsorbents employed for Cd (2+), Cu(2+) and Ni(2+) removal from aqueous solutions. *Environ Sci Pollut Res Int*. 2018 May;25(15):15068-15079. doi: 10.1007/s11356-018-1732-9. Epub 2018 Mar 19. PubMed PMID: 29557038.

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