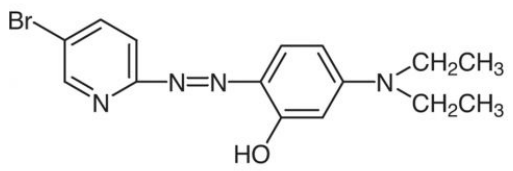
Product Data Sheet

Product Name: 5-Br-PADAP
Cat. No.: GD03388

Chemical Properties

Cas. No.	14337-53-2		
Formula	$C_{15}H_{17}BrN_4O$	M.Wt	349.226
Solubility		Storage	2-8°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

5-Br-PADAP is a highly sensitive organic colorimetric reagent, its full name is 2-(5-bromo-2-pyridiniazo)-5-(diethylamino)phenol, which can be used for the colorimetric determination of cadmium (Cd) and nickel (Ni), with a maximum absorption wavelength λ_{max}=443nm[1, 2]. By using 5-Br-PADAP and measuring the absorbance at 580nm, Cr(III) and Cr(VI) ions in chromium plating electrolysis wastewater can be determined simultaneously[3].

References:

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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[1] Nazari S. Determination of trace amounts of cadmium by modified graphite furnace atomic absorption spectrometry after liquid phase microextraction[J]. Microchemical Journal, 2008, 90(2): 107-112.
[2] Taher M A, Mostafavi A, Mobarake S Z M, et al. Simultaneous separation and preconcentration of trace amount of copper, nickel, cadmium and zinc ions onto modified amberlite XAD-4 loaded with 5-br-padap[J]. Bulletin of the Chemical Society of Ethiopia, 2006, 20(1): 1-7.
[3] Dawra N, Dabas N. Advances in spectrophotometric determination of Chromium (III) and Chromium (VI) in water: a review[J]. International Journal of Environmental Analytical Chemistry, 2024, 104(13): 2994-3015.

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