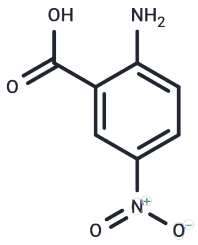
Data Sheet (Cat.No.T19724)

5NAA

Chemical Properties



CAS No. : 616-79-5

Formula: C7H6N2O4

Molecular Weight: 182.13

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	5NAA is a molecule secreted by Streptomyces scabies and is a raw material for the synthesis of dyes and other nitroaromatic compounds.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 60 mg/mL (329.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.4906 mL	27.4529 mL	54.9058 mL
5 mM	1.0981 mL	5.4906 mL	10.9812 mL
10 mM	0.5491 mL	2.7453 mL	5.4906 mL
50 mM	0.1098 mL	0.5491 mL	1.0981 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

Kalyoncu S, Heaner DP Jr, Kurt Z, Bethel CM, Ukachukwu CU, Chakravarthy S, Spain JC, Lieberman RL. Enzymatic hydrolysis by transition-metal-dependent nucleophilic aromatic substitution. Nat Chem Biol. 2016 Dec;12(12): 1031-1036. doi: 10.1038/nchembio.2191. Epub 2016 Oct 3.

Qu Y, Spain JC. Molecular and biochemical characterization of the 5-nitroanthranilic acid degradation pathway in Bradyrhizobium sp. strain JS329. J Bacteriol. 2011 Jun;193(12):3057-63. doi: 10.1128/JB.01188-10. Epub 2011 Apr 15. PubMed PMID: 21498645.

Qu Y, Spain JC. Biodegradation of 5-nitroanthranilic acid by Bradyrhizobium sp. strain JS329. Appl Environ Microbiol. 2010 Mar;76(5):1417-22. doi: 10.1128/AEM.02816-09. Epub 2010 Jan 15. PubMed PMID: 20081004; PubMed Central PMCID: PMC2832354.

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