Data Sheet (Cat.No.TN9481)

TargetMol

N1-Methylbenzene-1,2-diamine

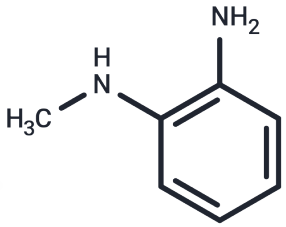
Chemical Properties

CAS No. : 4760-34-3

Formula: C7H10N2

Molecular Weight: 122.17

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	N1-Methylbenzene-1,2-diamine is a biochemical reagent applied in: one-pot synthesis of 1-methyl-2(hetero)arylbenzimidazoles; preparation of 1-methyl-1H-benzimidazole-2(3H)-thione; total synthesis of telmisartan (an angiotensin II receptor antagonist); and benzimidazole synthesis from ketene dithioacetals.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.1853 mL	40.9266 mL	81.8532 mL
5 mM	1.6371 mL	8.1853 mL	16.3706 mL
10 mM	0.8185 mL	4.0927 mL	8.1853 mL
50 mM	0.1637 mL	0.8185 mL	1.6371 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

Ivanova, M.; Zaharieva, J.; Tsvetkov, M.; Lozanova, V.; Morgenstern, B.; Lyapchev, R. 8-(2-Methoxyphenyl)-6-methyl-2-(1-methyl-1H-benzo[d]imidazol-2-yl)quinoline. Molbank 2024, 2024, M1874.
Yao, Z., Luo, Z., Pan, Y., Zhang, X., Li, B., Xu, L., Wang, P., & Shi, Q. (2021). Metal-Free Tandem One-Pot Construction of 3,3-Disubsituted 3,4-Dihydroquinoxalin-2(1H)-Ones under Visible-Light Photoredox Catalysis. Advanced Synthesis & Catalysis, 364(3), 658–664.

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