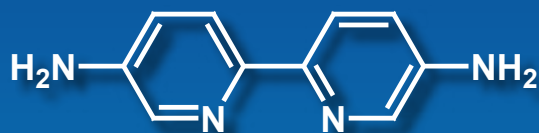


New

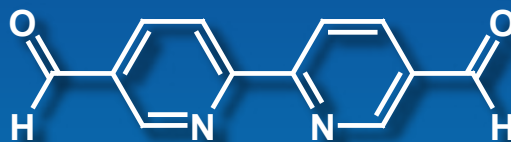
MATERIALS



2,2'-Bipyridine Linkers for the Synthesis of COFs



[2,2'-Bipyridine]-5,5'-diamine
1g / 5g
[D2893]

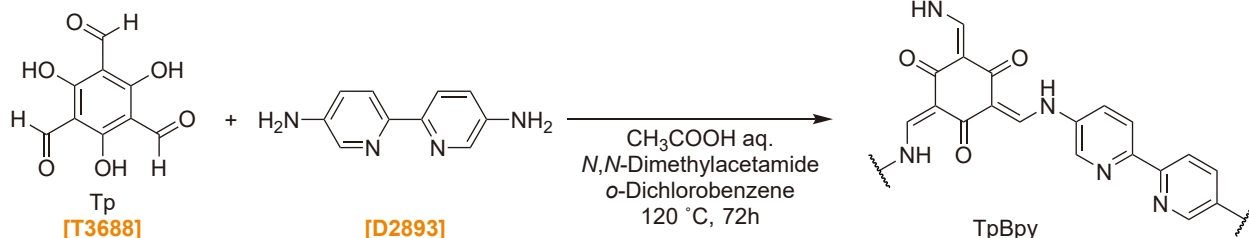


[2,2'-Bipyridine]-5,5'-dicarbaldehyde
1g
[B6576]

Advantages

- Applicable to the synthesis of covalent organic frameworks (COFs) containing 2,2'-bipyridine structure.
- Useful for the development of functional materials that takes advantage of the coordination of bipyridine moiety with metal atoms,^{1,2)} quaternization of bipyridine moiety,³⁾ and high electronegativity of pyridine nitrogen,⁴⁾ etc.

Applications (Synthesis of TpBpy)⁵⁾



- References
- 1) B. Maji *et al.*, *J. Am. Chem. Soc.* **2022**, *14*, 7822. <https://doi.org/10.1021/jacs.2c01814>
 - 2) Z.-G. Gu *et al.*, *Angew. Chem. Int. Ed.* **2022**, *61*, e202208791. <https://doi.org/10.1002/anie.202208791>
 - 3) J. Guo *et al.*, *J. Am. Chem. Soc.* **2019**, *141*, 14433. <https://doi.org/10.1021/jacs.9b07695>
 - 4) B. Han *et al.*, *Angew. Chem. Int. Ed.* **2023**, *62*, e202310934. <https://doi.org/10.1002/anie.202310934>
 - 5) R. Banerjee *et al.*, *J. Mater. Chem. A.* **2016**, *4*, 2682. <https://doi.org/10.1039/C5TA10521H>

Related Products

2,4,6-Triformylphloroglucinol (= Tp, TPG, TFP)	200mg / 1g [T3688]
2,5-Dihydroxyterephthalaldehyde (= DHTA)	1g / 5g [D5510]
4,4',4'',4'''-(Ethene-1,1,2,2-tetrayl)tetraaniline (= ETTA)	1g [T4075]
Tetrakis(4-aminophenyl)methane (= TAM)	200mg / 1g [T2947]
1,3,5-Tris(4-aminophenyl)benzene (= TAPB)	5g / 25g [T2728]

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