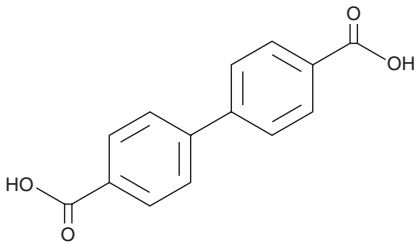
PRODUCT INFORMATION

4,4'-Biphenyldicarboxylic Acid

Item No. 46541

CAS Registry No.: 787-70-2
Formal Name: [1,1′-biphenyl]-4,4′-dicarboxylic acid
Synonyms: 4-BPA, BPDC, NSC 60016
MF: $C_{14}H_{10}O_4$
FW: 242.2
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

4,4'-Biphenyldicarboxylic acid is supplied as a solid. A stock solution may be made by dissolving the 4,4'-biphenyldicarboxylic acid in the solvent of choice, which should be purged with an inert gas. 4,4'-Biphenyldicarboxylic acid is slightly soluble (0.1-1 mg/ml) in DMSO.

Description

4,4'-Biphenyldicarboxylic acid is an aromatic dicarboxylic acid. It has been used as a linker in zirconium-based metal-organic frameworks (MOFs) that enter cells *via* caveolin-mediated endocytosis and have reduced lysosomal localization compared with MOFs containing functionalized 1,4-benzenedicarboxylate-based linkers.[1] It has also been used in the synthesis of aromatic polyester amides.[2]

References

1. Orellana-Tavra, C., Haddad, S., Marshall, R.J., *et al.* Tuning the endocytosis mechanism of Zr-based metal-organic frameworks through linker functionalization. *ACS Appl. Mater. Interfaces* **9(41),** 35516-35525 (2017).
2. Hsiao, S.-H. and Leu, W.-T. Synthesis and properties of novel aromatic poly(ester amide)s derived from 1,5-bis(4-aminobenzoyloxy)naphthalene and aromatic dicarboxylic acids. *Eur. Polym. J.* **40(11),** 2471-2480 (2004).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM