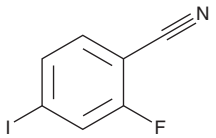
PRODUCT INFORMATION

2-Fluoro-4-iodo benzonitrile

Item No. 30483

CAS Registry No.: 137553-42-5
Synonym: 4-Iodo-2-fluoro benzonitrile
MF: C_7H_3FIN
FW: 247.0
Purity: ≥98%
UV/Vis.: λ_{max}: 255, 280, 289 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

2-Fluoro-4-iodo benzonitrile is supplied as a crystalline solid. A stock solution may be made by dissolving the 2-fluoro-4-iodo benzonitrile in the solvent of choice, which should be purged with an inert gas. 2-Fluoro-4-iodo benzonitrile is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 2-fluoro-4-iodo benzonitrile in these solvents is approximately 30 mg/ml.

2-Fluoro-4-iodo benzonitrile is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 2-fluoro-4-iodo benzonitrile should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 2-Fluoro-4-iodo benzonitrile has a solubility of approximately 0.16 mg/ml in a 1:5 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

2-Fluoro-4-iodo benzonitrile is a building block.[1,2] It has been used in the synthesis of *L. infantum* trypanothione reductase (*Li*-TryR) dimerization and oxidoreductase activity inhibitors.[1] 2-Fluoro-4-iodo benzonitrile has also been used in the synthesis of transient receptor potential ankyrin 1 (TRPA1) antagonists.[2]

References

1. Revuelto, A., Ruiz-Santaquiteria, M., de Lucio, H., *et al.* Pyrrolopyrimidine vs imidazole-phenyl-thiazole scaffolds in nonpeptidic dimerization inhibitors of *Leishmania infantum* trypanothione reductase. *ACS Infect. Dis.* **5(6)**, 873-891 (2019).
2. Vallin, K.S., Sterky, K.J., Nyman, E., *et al. N*-1-Alkyl-2-oxo-2-aryl amides as novel antagonists of the TRPA1 receptor. *Bioorg. Med. Chem. Lett.* **22(17)**, 5485-5492 (2012).

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