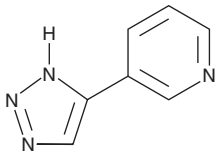
PRODUCT INFORMATION

3-TYP

Item No. 29660

CAS Registry No.: 120241-79-4
Formal Name: 3-(1H-1,2,3-triazol-5-yl)-pyridine
MF: $C_7H_6N_4$
FW: 146.2
Purity: ≥98%
UV/Vis.: λ_{max}: 245 nm
Supplied as: A crystalline 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

3-TYP is supplied as a crystalline solid. A stock solution may be made by dissolving the 3-TYP in the solvent of choice, which should be purged with an inert gas. 3-TYP is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 3-TYP in ethanol is approximately 5 mg/ml and approximately 10 mg/ml in DMSO and DMF.

3-TYP is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 3-TYP should first be dissolved in DMF and then diluted with the aqueous buffer of choice. 3-TYP has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

3-TYP is a sirtuin 3 (SIRT3) inhibitor (IC_{50} = 38 µM).[1] It is selective for SIRT3 over SIRT1 and SIRT2 at 1 mM. 3-TYP (1 mM) increases acetylation of lysine residues in mitochondrial proteins in HeLa cells. It inhibits the growth of CCRF-CEM, COLO 205, OVCAR-4, OVCAR-8, and SKOV3 cells by greater than 50% when used at a concentration of 10 µM.

Reference

1. Galli, U., Mesenzani, O., Coppo, C., *et al.* Identification of a sirtuin 3 inhibitor that displays selectivity over sirtuin 1 and 2. *Eur. J. Med. Chem.* **55**, 58-66 (2012).

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