

Product Data Sheet

Product Name: 1,3,5-Tri(1H-1,2,3-triazol-5-yl)benzene

Cat. No.: GC80833

Chemical Properties

Cas. No. 1167993-47-6

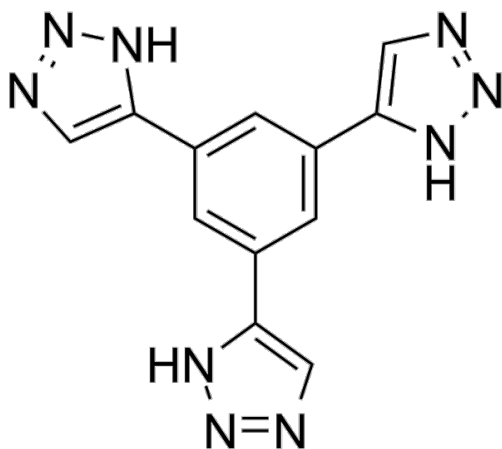
Formula $C_{12}H_9N_9$ M.Wt 279.27

Solubility DMSO: 25 mg/mL (89.52 mM); ultrasonic and warming and heat to 60°C) Storage Store at 4°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

1,3,5-Tri (1H-1,2,3-triazol-5-yl) benzene is a tritopic triazole-bridged ligand (H₃ BTTri) that forms a sodalite-type metal-organic framework with coordinatively unsaturated cobalt (II) centers. This framework exhibits selective O₂-binding capacity over N₂. 1,3,5-Tri (1H-1,2,3-triazol-5-yl) benzene can be used for the synthesis of metal-organic framework (MOF)-related materials [1].

In Vitro, 1,3,5-Tri(1H-1,2,3-triazol-5-yl)benzene-derived activated Co-BTTri (195, 213, 223 K) exhibits

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preferential O₂ adsorption over N₂^[1]. 1,3,5-Tri(1H-1,2,3-triazol-5-yl)benzene-derived activated Co-BTtri (10 cycles; 24 h humid air exposure) retains full O₂ adsorption capacity, crystallinity, and surface area after 10 adsorption/desorption cycles and 24 h exposure to 90% relative humidity air followed by reactivation^[1].

References:

[1]. Xiao DJ, et al. Selective, Tunable O₂ Binding in Cobalt(II)-Triazolate/Pyrazolate Metal-Organic Frameworks. J Am Chem Soc. 2016;138(22):7161-7170.

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