

Product Data Sheet

Product Name: IMP-1710

Cat. No.: GC48614

Chemical Properties

Cas. No. 2383117-96-0

SMILES O=C([C@H]1N(C#N)CCC1)N2C3=CC=CC(C(C4=C5)CNC4=NC=C5C#C)=C3CC2

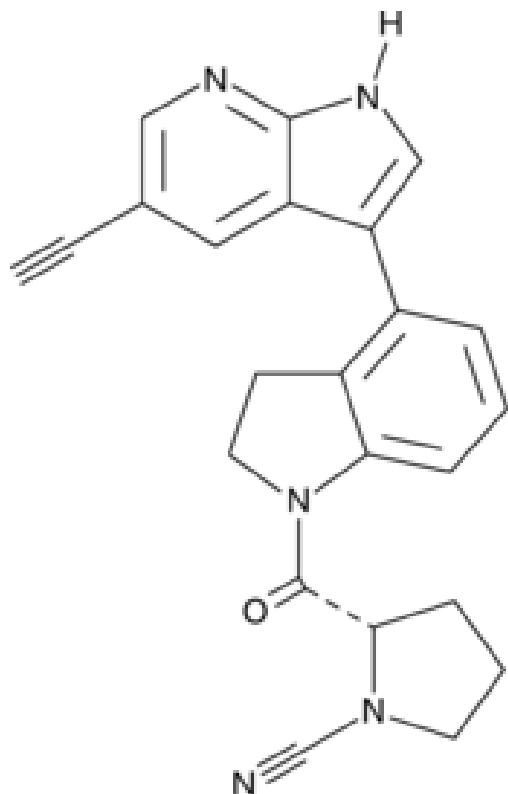
Formula C₂₃H₁₉N₅O M.Wt 381.4

Solubility Chloroform: 10 mg/ml, Ethanol: 5 mg/ml Storage -20°C

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

Caution: Product has not been fully validated for medical applications. For research use only.

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IMP-1710 is an inhibitor of ubiquitin C-terminal hydrolase L1 (UCH-L1; IC₅₀ = 38 nM in a fluorescence polarization assay) that contains an alkyne moiety for use in click chemistry reactions.¹ It is selective for UCH-L1 over a panel of 20 deubiquitinating enzymes at 1 μM. IMP-1710 inhibits TGF-β1-induced fibroblast-to-myofibroblast transition (FMT) in primary lung fibroblasts isolated from patients with idiopathic pulmonary fibrosis (IC₅₀ = 740 nM). It has been used for labeling UCH-L1 in cell-based assays, followed by click reactions with azide-modified TAMRA and biotin capture reagents.

1. Panyain, N., Godinat, A., Lanyon-Hogg, T., et al. Discovery of a potent and selective covalent inhibitor and activity-based probe for the deubiquitylating enzyme UCHL1, with antifibrotic activity. *J. Am. Chem. Soc.* 142(28):12020-12026 (2020)

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