

Product Data Sheet

Product Name: BB-F-Yne

Cat. No.: GC42910

Chemical Properties

Cas. No. 2219331-30-1

SMILES O=C(N[C@@H](CCCNC(CF)=N)C1=NC2=C(C=CC=C2)N1)C(C=C3)=CC=C3C4=CC=C(C#C)C=C4

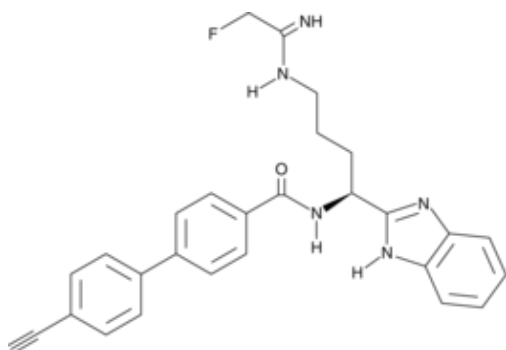
Formula C₂₈H₂₆FN₅O M.Wt 467.5

Solubility DMF: 5 mg/mL, DMF:PBS (pH 7.2) Storage Store at -20°C
(1:5): 0.16 mg/mL, DMSO: 20 mg/mL

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

BB-F-Yne is a cell-permeable derivative of the protein arginine diminas (PAD) inhibitor BB-Cl-amidine that contains an alkyne moiety for use in click chemistry reactions. BB-F-Yne inhibits PAD1-4 with Kinact/KI values of 900, 1,200, 3,400, and 3,750 M⁻¹min⁻¹, respectively. It has been used for labeling PADs in cell-free and cell-based assays, followed by click reactions with azide-modified TAMRA or biotin reporters.

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

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