

Product Data Sheet

Product Name: T-26c
Cat. No.: GC31862

Chemical Properties

Cas. No. 869296-13-9

SMILES COC1=CC=CC(CNC(C2=NC(SC=C3COCC4=CC=C(C(C(O)=O)C=C4)=C3C(N2)=O)=O)=C1

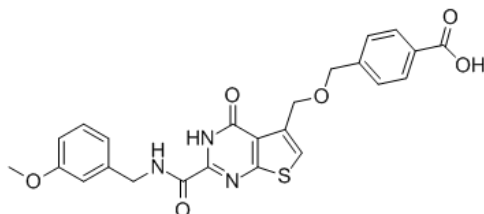
Formula $C_{24}H_{21}N_3O_6S$ M.Wt 479.51

Solubility DMSO : 15.62 mg/mL (32.57 mM); Water : < 0.1 mg/mL (insoluble) Storage Store at -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

T-26c is highly potent and selective matrix metalloproteinase-13 (MMP-13) inhibitor with an IC₅₀ of 6.75 pM and more than 2600-fold selectivity over the other related metalloenzymes[1].

T-26c significantly inhibits the breakdown of collagen (87.4% inhibition at 0.1 μM) in IL-1β and oncostatin M stimulated cartilage[1].

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

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[1]. Nara H, et al. Thieno[2,3-d]pyrimidine-2-carboxamides bearing a carboxybenzene group at 5-position: highly potent, selective, and orally available MMP-13 inhibitors interacting with the S1'' binding site. Bioorg Med Chem. 2014 Oct 1;22(19):5487-505.

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