

Product Data Sheet

Product Name: STAT3-IN-20

Cat. No.: GC73605

Chemical Properties

Cas. No. 2768427-54-7

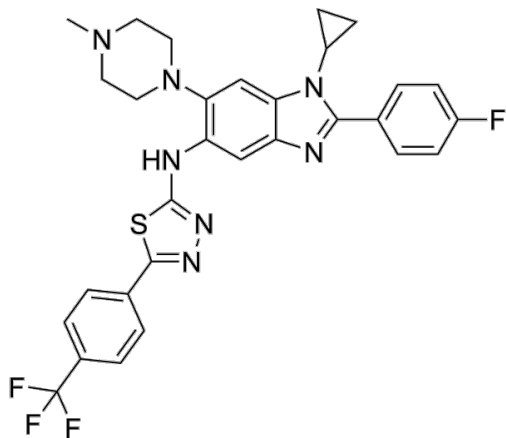
Formula $C_{30}H_{27}F_4N_7S$ M.Wt 593.64

Solubility DMSO : 100 mg/mL (168.45 mM; ultrasonic and warming and heat to 80°C) 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

STAT3-IN-20 (Compound 40) is a selective STAT3 inhibitor (IC₅₀: 0.65 μM). STAT3-IN-20 binds the SH2 domain to inhibit STAT3 phosphorylation, translocation, and downstream gene transcription. STAT3-IN-20 exhibits antiproliferative activities against STAT3-overactivated DU145 and MDA-MB-231 cancer cells (IC₅₀: 2.97 μM and 3.26 μM respectively). STAT3-IN-20 induces cell cycle arrest and apoptosis.

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

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References:

[1]. Wang R, et al. Discovery, Optimization, and Evaluation of Novel N-(Benzimidazol-5-yl)-1,3,4-thiadiazol-2-amine Analogues as Potent STAT3 Inhibitors for Cancer Treatment. J Med Chem. 2023 Aug 18.

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