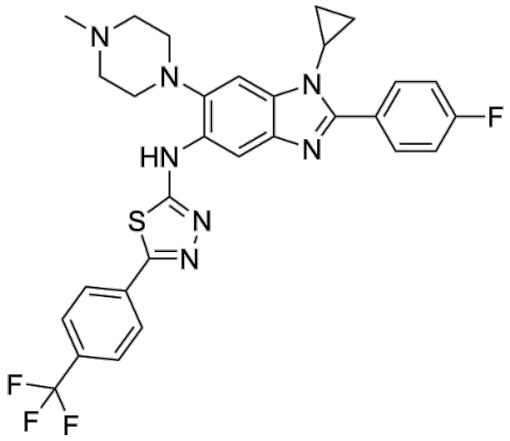
# Product Data Sheet

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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***Address: 10292 Central Ave. #205, Montclair, CA, USA***

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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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