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**Product Data Sheet**

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Product Name: F-1  
Cat. No.: GC36021

**Chemical Properties**

Cas. No. 2244775-31-1

SMILES O=S(NC1=C(NC2=NC(NC3=C(OC)N=C(N4CCN(C)CC4)C=C3)=NC=C2Cl)C=CC=C1)(C)=O

Formula  $C_{22}H_{27}ClN_8O_3S$  M.Wt 519.02

Solubility Soluble in DMSO 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 Condition, or blue ice upon request.

Structure

**Background**

F-1 is a potent ALK and ROS1 dual inhibitor, suppresses phospho-ALK and its relative downstream signaling pathways, with IC<sub>50</sub>s of 2.1 nM, 2.3 nM, 1.3 nM and 3.9 nM for ALKWT, ROS1WT, ALKL1196M and ALKG1202R, respectively[1].

[1]. Guo M, et al. Dual potent ALK and ROS1 inhibitors combating drug-resistant mutants: Synthesis and biological evaluation of aminopyridine-containing diarylaminopyrimidine derivatives. Eur J Med Chem. 2018 Sep 6;158:322-333.

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

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