

Product Datasheet

TAS120

Catalog No. **BP-01892** · CAS **1448169-71-8** · Form **free base** · Physical state **solid** · Color **White to yellow** · Version **1.0** ·
Revision **2026-09-04**

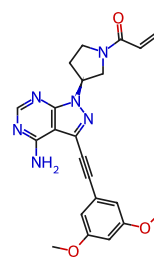
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Target FGFR	Research area Cancer
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Molecular formula **C₂₂H₂₂N₆O₃**

Molecular weight **418.4485**

STRUCTURE



DESCRIPTION

TAS120 is an orally bioavailable, highly selective, and irreversible FGFR inhibitor, with IC₅₀s of 3.9, 1.3, 1.6, and 8.3 nM for FGFR 1-4, respectively.

BIOLOGICAL ACTIVITY

In Vitro

Futibatinib (TAS-120) covalently binds to a highly conserved P-loop cysteine residue in the ATP pocket of FGFR.

In Vivo

Futibatinib (TAS-120) (3, 30, 100 mg/kg/day, p.o.) exerts an anti-tumor effect in mice. Futibatinib (TAS-120) shows anti-tumor effect by administering at moderate intervals, such as intermittent administration of every other day dosing and 2 times/week, and reducing the sustained elevation and weight suppression blood phosphorus level, and take a antitumor effective as daily administration.

SOLUBILITY

Soluble in DMSO : >25 mg/mL (69.30 mM)

REFERENCES

- [1]. Goyal L, et al. TAS-120 Overcomes Resistance to ATP-Competitive FGFR Inhibitors in Patients with FGFR2 Fusion-Positive Intrahepatic Cholangiocarcinoma. Cancer Discov. 2019 Aug;9(8):1064-1079.
- [2]. Kalyukina M, et al. TAS-120 Cancer Target Binding: Defining Reactivity and Revealing the First Fibroblast Growth Factor Receptor 1 (FGFR1) Irreversible Structure. ChemMedChem. 2019 Feb 19;14(4):494-500.
- [3]. Lamarca A, et al. Molecular targeted therapies: Ready for "prime time" in biliary tract cancer [published online ahead of print, 2020 Mar 12]. J Hepatol. 2020;S0168-8278(20)30165-3.

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