

Product Datasheet

TYRA-200

Catalog No. **BP-02058** · CAS **2823289-77-4** · Form **free base** · Physical state **solid** · Color **Off-white to light yellow** · Version **1.0** · Revision **2026-09-14**

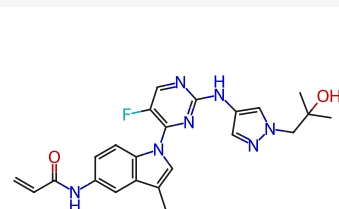
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Target FGFR	Research area Cancer
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Molecular formula **C₂₃H₂₄N₇O₂**

Molecular weight **449.4808**

STRUCTURE



DESCRIPTION

TYRA-200 is a potent and orally active FGFR2 inhibitor. TYRA-200 inhibits the kinase activity of wild-type FGFR2 and its mutants. TYRA-200 induces significant tumor regression in FGFR2-driven cancer models. TYRA-200 can be used for the research of FGFR2-altered advanced solid tumors, intrahepatic cholangiocarcinoma, and endometrial cancer.

BIOLOGICAL ACTIVITY

In Vitro

TYRA-200 potently inhibits the enzymatic activity of FGFR2 gatekeeper mutants (V565L, V565F) and molecular brake mutants (N550D, N550H, N550K, E566A), and exhibits potent cellular growth inhibitory activity against Ba/F3 cells expressing FGFR2 variants N550K, V565F, V565I, K660E, and K660N.

TYRA-200 maintains in vitro activity in AN3CA endometrial cancer cells harboring the FGFR2 N550K molecular brake mutation.

In Vivo

TYRA-200 induces 80% tumor regression in the AN3CA endometrial cancer xenograft model with the FGFR2 N550K molecular brake mutation, and 64% tumor regression in the Ba/F3 FGFR2 V565F allograft model with the FGFR2 V565F gatekeeper resistance mutation.

SOLUBILITY

Soluble in DMSO : 100 mg/mL

REFERENCES

[1]. Rodon Ahnert J, et al. A multicenter, open-label, first-in-human study of TYRA-200 in advanced intrahepatic cholangiocarcinoma and other solid tumors with activating FGFR2 gene alterations (SURF201). J Clin Oncol. 2025;43(4 suppl):TPS646. doi: 10.1200/JCO.2025.43.4.suppl.TPS646

[2]. Allen E, et al. TYRA-200: Potent Against FGFR2 Fusions, Molecular Brake Mutations and Gatekeeper Resistance. Eur J Cancer. 2022;174 Suppl 1:S16.

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