

Product Datasheet

LOXO-305

Catalog No. **BP-01972** · CAS **2101700-15-4** · Form **free base** · Physical state **solid** · Color **White to yellow** · Version **1.0** · Revision **2026-09-09**

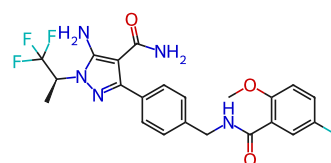
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Target Btk	Research area Cancer
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Molecular formula **C₂₂H₂₁F₄N₅O₃**

Molecular weight **479.4275**

STRUCTURE



DESCRIPTION

Pirtobrutinib (LOXO-305), a highly selective and non-covalent next generation BTK inhibitor, inhibits diverse BTK C481 substitution mutations.

BIOLOGICAL ACTIVITY

In Vitro

Pirtobrutinib potently inhibits both wild-type BTK and BTK C481S-mediated kinase activity with nanomolar potency. Pirtobrutinib inhibits WT BTK (Y223) autophosphorylation with an IC₅₀ of 3.68 nM. Pirtobrutinib inhibits BTK C481S Y223, C481T Y223, and C481R Y223 autophosphorylation with IC₅₀s of 8.45, 7.23, and 11.73 nM, respectively.

SOLUBILITY

Soluble in DMSO 50 mg/mL

REFERENCES

[1]. Gomez E B , et al. Loxo-305, a Highly Selective and Non-Covalent Next Generation BTK Inhibitor, Inhibits Diverse BTK C481 Substitution Mutations[J]. Blood, 2019, 134(Supplement_1):4644-4644.

Tel: +86 20 31130026 · Fax: +86 20 36822386 · tech@biochemprobe.com · www.biochemprobe.com

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Lot CoA and SDS are separate documents.