

Product Datasheet

BI-3406

Catalog No. **BP-01992** · CAS **2230836-55-0** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-10**

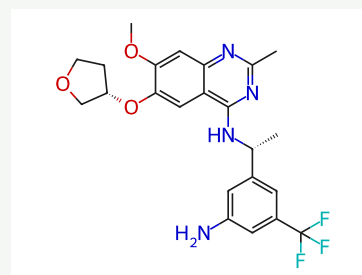
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Target Others	Research area Cancer
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Molecular formula **C₂₃H₂₅F₃N₄O₃**

Molecular weight **462.4648**

STRUCTURE



DESCRIPTION

BI-3406 (compound I-6) is a Son of Sevenless 1 (SOS1) inhibitor with an IC₅₀ of 6 nM.

BIOLOGICAL ACTIVITY

In Vitro

BI-3406 is an inhibitor of the interaction between KRAS and its Guanine Nucleotide Exchange Factor (GEF) SOS1. BI-3406 does not block the interaction of KRAS with SOS2 but elicits activity on a broad panel of KRAS oncogenic variants, including all major G12 and G13 oncoproteins. Down-modulation of this signaling cascade by BI-3406 in KRAS G12 or G13 mutant cells effectively limits cell proliferation.

SOLUBILITY

Soluble in DMSO, Ethanol

REFERENCES

- [1]. Marco H Hofmann, et al. Abstract PL06-01: Discovery of BI-3406: A potent and selective SOS1::KRAS inhibitor opens a new approach for treating KRAS-driven tumors. December 2019.
- [2]. Michael Gmachl, et al. Novel benzylamino substituted quinazolines and derivatives as sos1 inhibitors. WO2018115380A1.