

Product Datasheet

NST-628

Catalog No. **BP-00092** · CAS **3002056-30-3** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-14**

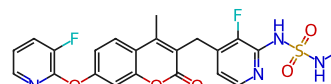
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Target Molecular Glues; Raf; MEK	Research area Cancer
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Molecular formula **C₂₂H₁₈F₂N₄O₅S**

Molecular weight **488.4640**

STRUCTURE



DESCRIPTION

NST-628 is a brain-permeable MAPK pathway molecule glue that inhibits RAF phosphorylation and MEK activation. NST-628 also binds RAF and prevents the formation of BRAF-CRAF and BRAF-ARAF heterodimers, effectively inhibiting the RAS-MAPK pathway.

BIOLOGICAL ACTIVITY

NST-628 is a brain-permeable MAPK pathway molecule glue that inhibits RAF phosphorylation and MEK activation. NST-628 also binds RAF and prevents the formation of BRAF-CRAF and BRAF-ARAF heterodimers, effectively inhibiting the RAS-MAPK pathway. NST-628 inhibits RAS- and RAF-driven cancers and demonstrated potent inhibition in mutant KRAS, NRAS, BRAF class II/III, and NF1-mutant tumors.

SOLUBILITY

Soluble in DMSO

REFERENCES

- [1]. Ryan M B, et al. Abstract ND10: NST-628 is a novel, potent, fully brain-penetrant MAPK pathway molecular glue that inhibits RAS-and RAF-driven cancers[J]. Cancer Research, 2024, 84(7_Supplement): ND10-ND10.
- [2]. Meagan B et al. The Pan-RAF-MEK Nondegrading Molecular Glue NST-628 Is a Potent and Brain-Penetrant Inhibitor of the RAS-MAPK Pathway with Activity across Diverse RAS- and RAF-Driven Cancers. Cancer Discov 2024.

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