Product Datasheet

VT3989

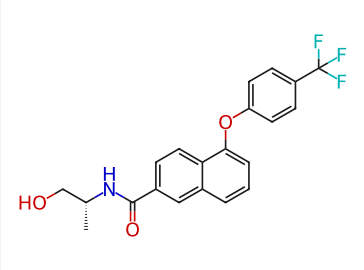
Catalog No. **BP-04124** · CAS **2506273-81-8** · Form **free base** · Physical state **solid** · Color **White to light brown** · Version **1.0** · Revision **2026-11-12**

FOR RESEARCH USE ONLY. NOT FOR HUMAN OR VETERINARY USE.

Target	Research area
YAP; VEGFR; Hippo (MST)	**Cancer**

Molecular formula	$C_{21}H_{18}F_3NO_3$
Molecular weight	**389.3677**

STRUCTURE



DESCRIPTION

VT3989 is an orally active pan-TEAD autopalmitoylation inhibitor that modulates the Hippo signaling pathway. VT3989 directly binds to TEAD transcription factors to block their palmitoylation modification, thereby disrupting the formation of YAP/TAZ-TEAD complexes and inhibiting downstream oncogenic transcriptional activity. VT3989 effectively inhibits the growth of NF2-deficient schwannoma and meningioma cells and reverses the Schwann cell phenotype.

BIOLOGICAL ACTIVITY

VT3989 exhibits strong to very strong synergy with osimertinib in cell proliferation assays using EGFR mutant NSCLC cell lines

VT3989, a TEAD central pocket inhibitor, reduces expression of TEAD target genes and is cytotoxic to NF2-deficient IOMM-Lee and MG309 meningioma cells

VT3989 (30 mg/kg; p.o.; daily; 21 days) reverses elevated Vegfa expression and reduces Schwann cell-specific Vegfa signal in a mouse model of merlin-deficient schwannoma

SOLUBILITY

Soluble in DMSO : ≥ 100 mg/mL

In vitro	DMSO : ≥ 100 mg/mL

REFERENCES

[1]. Haddox C L, et al. SAFETY AND EARLY EFFICACY OF VT3989, A TEAD INHIBITOR, IN PATIENTS WITH ADVANCED EPITHELIOID HEMANGIOENDOTHELIOMA (EHE): A PHASE I/II STUDY[J]. ESMO Rare Cancers, 2025, 4.

[2]. Laws M T, et al. Variable Schwann cell merlin inactivation is targetable with TEAD1 inhibition in schwannomas[J]. bioRxiv, 2025: 2025.11. 15.688608.

[3]. Tang T T, et al. The TEAD autopalmitoylation inhibitor VT3989 improves efficacy and increases durability of efficacy of osimertinib in preclinical EGFR mutant tumor models[J]. Cancer Research, 2022, 82(12_Supplement): 5364-5364.

[4]. Koroleva OA, et al. The Hippo pathway as an antitumor target: time to focus on. Expert Opin Investig Drugs. 2024;33(12):1177-1185.

Tel: +86 20 31130026 · Fax: +86 20 36822386 · tech@biochemprobe.com · www.biochemprobe.com
BiochemProbe is the catalog brand of Guangzhou Yuyuan Biotech Co., Ltd. · For research use only.
Lot CoA and SDS are separate documents.