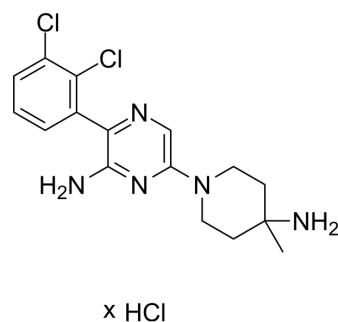


SHP099 hydrochloride

Cat. No.:	HY-100388B
CAS No.:	1801747-11-4
Molecular Formula:	C ₁₆ H ₁₉ Cl ₂ N ₃ ·xClH
Target:	SHP2
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SHP099 hydrochloride is an allosteric SHP2 inhibitor, with IC ₅₀ s of 0.690, 1.241, 0.416, 1.968, 2.896 μM for SHP2, SHP2 ^{D61Y} , SHP2E69K, SHP2 ^{A72V} , SHP2 ^{E76K} . SHP099 hydrochloride inhibits cancer cell growth, such as MV4-11 and TF-1 cell (IC ₅₀ : 0.32 and 1.73 μM). SHP099 hydrochloride inhibits RAS-ERK signaling and inhibit tumor growth ^{[1][2]} .
IC₅₀ & Target	0.690, 1.241, 0.416, 1.968, 2.896 μM for SHP2, SHP2 ^{D61Y} , SHP2E69K, SHP2 ^{A72V} , SHP2 ^{E76K} [1]

CUSTOMER VALIDATION

- Signal Transduct Target Ther. 2022 Sep 12;7(1):317.
- Nat Immunol. 2021 Oct 22.
- Cancer Discov. 2018 Oct;8(10):1237-1249.
- ACS Nano. 2023 Aug 14.
- Nat Commun. 2018 Oct 30;9(1):4507.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Sun X, et al. Selective inhibition of leukemia-associated SHP2E69K mutant by the allosteric SHP2 inhibitor SHP099. *Leukemia*. 2018 May;32(5):1246-1249.
- [2]. Chen YN, et al. Allosteric inhibition of SHP2 phosphatase inhibits cancers driven by receptor tyrosine kinases. *Nature*. 2016 Jul 7;535(7610):148-52.

Caution: Product has not been fully validated for medical applications. For research use only.

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