# LXQ-217

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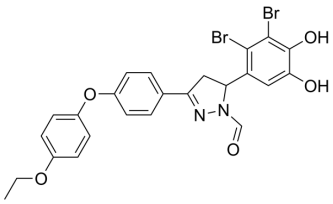
| **Cat. No.:** | HY-161360 |
| **CAS No.:** | 2524718-79-2 |
| **Molecular Formula:** | $C_{24}H_{20}Br_2N_2O_5$ |
| **Molecular Weight:** | 576.23 |
| **Target:** | Apoptosis; SHP2 |
| **Pathway:** | Apoptosis; Protein Tyrosine Kinase/RTK |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |




## BIOLOGICAL ACTIVITY

**Description**

LXQ-217 is an oral active SHP2 inhibitor with the $IC_{50}$ of 2.01 μM. LXQ-217 induces apoptosis and inhibits cell growth in vivo and in vitro[1].

**In Vitro**

LXQ-217 (72 h) inhibits cell growth of A549, HCT116, HepG2 and MDA-MB-231 cells with the $IC_{50}$ values of 2.06, 3.88, 4.53, and 5.13 μM[1].

LXQ-217 (2.5, 5, 10 μM, 7 days) decreases the clonogenic number and formation rate of A549 cells[1].

LXQ-217 (1.25, 2.5 μM, 24 h) inhibits the migration of A549 cells[1].

LXQ-217 (2.5, 5, 10 μM, 3 h) increases in the levels cleaved-parp (C-parp), cleaved-caspase9 (C-cas9) and cleaved-caspase3 (C-cas3) in A549 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Migration Assay [1]

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| Cell Line: | A549 cells |
| Concentration: | 1.25 and2.5 μM |
| Incubation Time: | 72 h |
| Result: | Inhibited the migration of A549 cells. |

Western Blot Analysis[1]

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| Cell Line: | A549 cells |
| Concentration: | 2.5, 5 and 10 μM |
| Incubation Time: | 3 h |
| Result: | Increased the levels cleaved-parp (C-parp), cleaved-caspase9 (C-cas9) and cleaved-caspase3 (C-cas3) in A549 cells. |

**In Vivo**

LXQ-217 (50, 100mg/kg; Oral administration for 14 days) inhibites the growth of A549 cell xenograft model constructed based on BALB/c-nude mice[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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| Animal Model: | A549 cell xenograft model constructed based on BALB/c-nude mice[1] |
| Dosage: | 50 or 100mg/kg |
| Administration: | Oral administration for 14 days |
| Result: | Lowered tumor weight and volume of mice. |

## REFERENCES

[1]. Sun H, et al. Small Molecule SHP2 Inhibitor LXQ-217 affects Lung Cancer Cell Proliferation in Vitro and in Vivo. Chem Biodivers. Published online February 20, 2024.



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