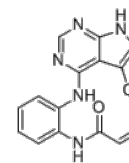


Product Name : BSJ-04-122
Cat. No. : PC-38277
CAS No. : 2513289-74-0
Molecular Formula : C₁₅H₁₂ClN₅O
Molecular Weight : 313.745
Target : MEK (MAP2K)
Solubility :



Biological Activity

BSJ-04-122 is a potent, selective, covalent dual **MKK4/7** inhibitor with IC₅₀ of 4/181 nM, displays excellent kinome selectivity.

BSJ-04-122 covalently targets a conserved cysteine (Cys247 for MKK4, and Cys261 for MKK7) located before the DFG motif. BSJ-04-122 exhibits potent cellular target engagement and induces robust target-specific downstream effects.

In breast cancer cell lines, BSJ-04-122 potently inhibited JNK phosphorylation, BSJ-04-122 significantly decreased levels of T183/Y185 pJNK at 5 μM, resulting in complete inhibition at 10 μM in MDA-MB-231 cells.

The combination of the dual MKK4/7 inhibitor BSJ-04-122 with a selective, covalent JNK inhibitor (JNK-IN-8) demonstrated an enhanced antiproliferative activity against triple-negative breast cancer cells.

References

Jie Jiang, et al. *Cell Chem Biol.* 2020 Dec 17;27(12):1553-1560.e8.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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