

MK-2206 dihydrochloride

Catalog Number :1031320

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: MK2206, MK 2206, MK-2206 2HCl

Chemical Name: 8-[4-(1-aminocyclobutyl)phenyl]-9-phenyl-2H-[1,2,4]triazolo[3,4-f][1,6]naphthyridin-3-one;dihydrochloride

Molecular Formula: C₂₅H₂₁N₅O 2HCl

Molecular Weight: 480.4

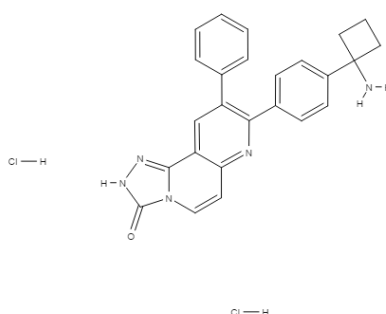
CAS Number: 1032350-13-2

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

MK-2206 is a highly allosteric selective Akt1,2,3 (IC₅₀ 5nM, 12nM, 65nM) inhibitor. It is reported to inhibit the proliferation of cancer cell lines when used synergistically with cytotoxic agents such as erlotinib or lapatinib and significantly enhances cell apoptosis.

Preparation & Storage

Soluble in organic solvents such as DMF or DMSO. DMSO up to 2mg/ml.

References

- Hirai, H., Sootome, H., Nakatsuru, Y., Miyama, K., Taguchi, S., Tsujioka, K., ... Kotani, H. (2010). MK-2206, an allosteric Akt inhibitor, enhances antitumor efficacy by standard chemotherapeutic agents or molecular targeted drugs in vitro and in vivo.;Molecular cancer therapeutics;9(7), 1956-1967.
- Cheng, Y., Zhang, Y., Zhang, L., Ren, X., Huber-Keener, K. J., Liu, X., ... Rubin, E. (2012). MK-2206, a novel allosteric inhibitor of Akt, synergizes with gefitinib against malignant glioma via modulating both autophagy and apoptosis.;Molecular cancer therapeutics;11(1), 154-164.
- Simioni, C., Neri, L. M., Tabellini, G., Ricci, F., Bressanin, D., Chiarini, F., ... Pagliaro, P. (2012). Cytotoxic activity of the novel Akt inhibitor, MK-2206, in T-cell acute lymphoblastic leukemia.;Leukemia;26(11), 2336-2342.