**BioVision**

rev.05/11

# MK-2206

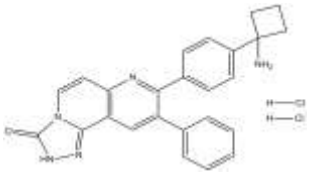
***FOR RESEARCH USE ONLY! Not to be used on humans.***

**ALTERNATE NAME:** 8-(4-(1-Aminocyclobutyl)phenyl-9-phenyl[1,2,4]triazolo[3,4-f][1,6]naphthyridin-3(2H)-one dihydrochloride

**CATALOG #:** 1888-500, 1000

**AMOUNT:** 500 µg, 1 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** $C_{25}H_{21}N_5O$ .2HCl

**MOLECULAR WEIGHT:** 480.39

**CAS NUMBER:** 1032350-13-2

**APPEARANCE:** Crystalline solid

**SOLUBILITY:** DMSO

**PURITY:** ≥98% by HPLC

**STORAGE:** Store at -20 ℃

**DESCRIPTION:** A highly selective non-ATP competitive allosteric Akt inhibitor with $IC_{50}$'s of 8 nM, 2 nM and 65 nM for Akt1, Akt2 and Akt3, respectively. MK-2206 potently inhibits phosphorylation of $Thr^{308}$ and $Ser^{473}$ in 3T3-L1 adipocytes with $IC_{50}$ values of 0.11 and 0.18 µM, respectively as well as downstream effects of insulin on GLUT4 translocation ($IC_{50}$ = 0.47 µM) and glucose transport ($IC_{50}$ = 0.14 µM). In addition, treatment with MK-2206 causes a robust, concentration-dependent activation of autophagy in human glioma cell lines LN229 and T98G.

**REFERENCE:** Cheng, Y., *et al.* (2011). *Cancer Res.* **71**, 2654-2663.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

- Akt Inhibitor **(Cat. No. 1701-1)**
- Akt Inhibitor, Isozyme-Selective **(Cat. No. 1708-1)**
- DiscoveryPak™ PI 3 Kinase Inhibitor Set **(Cat. No. K856-5)**
- Perifosine(KRX-0401) **(Cat. No. 1592-5, 25)**
- SH-5 **(Cat. No. 1818-500)**
- SH-6 **(Cat. No. 1819-500)**
- SC66 **(Cat. No. 1870-10, 50)**
- Triciribine **(Cat. No. 1707-1)**

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