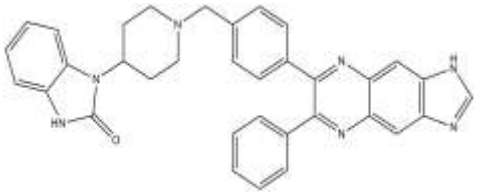
Akt Inhibitor, Isozyme-Selective

ALTERNATE NAME: 1,3-Dihydro-1-(1-((4-(6-phenyl-1H-imidazo[4,5-g]quinoxalin-7-yl)phenyl)methyl)-4-piperidinyl)-2H-benzimidazol-2-one; Akti-1/2

CATALOG #: 1708-1

STRUCTURE:



MOLECULAR FORMULA: $C_{34}H_{29}N_7O$

MOLECULAR WEIGHT: 551.65

CAS NUMBER: 612847-09-3

APPEARANCE: Light yellow solid

SOLUBILITY: DMSO

PURITY: ≥97% by HPLC

STORAGE: Store at -20°C.

DESCRIPTION: Cell-permeable. A potent and selective inhibitor of Akt1/Akt2 activity (IC_{50} = 58 nM (Akt1), 210 nM (Akt2) and 2.12 µM (Akt3) in *in vitro* kinase assays). The inhibition appears to be pleckstrin homology (PH) domain-dependent. It does not exhibit any inhibitory effect against PH domain-lacking Akts, or other closely related AGC family kinases, PKA, PKC, and SGK, even at concentrations (50 µM).

REFERENCES: Calleja, V., *et al.* (2009*). PLoS Biol*. **7,** 189-199; Logie, L.*, et al.* (2007). *Diabetes* **56,** 2218-2227.

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

FOR RESEARCH USE ONLY! Not to be used in humans.

RELATED PRODUCTS:

- Akt Inhibitor **(Cat. No. 1701-1)**
- Triciribine **(Cat. No. 1707-1)**
- Akt/PKB Polyclonal Ab **(Cat. No. 3247-100)**
- Phospho-Akt Polyclonal Ab **(Cat. No. 3257-100)**