

Catalog	Unit
TBI5406-5MG	5 mg
TBI5406-25MG	25 mg

Product Details

Formal Name: 3-[4-(4-morpholinyl)pyrido[3',2':4,5]furo[3,2-d]pyrimidin-2-yl]-phenol

Molecular Formula: C₁₉H₁₆N₄O₃

Formula Weight: 348.40

CAS Number: 371935-74-9

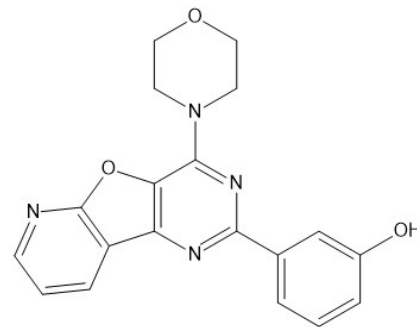
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (40 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

PI3K, mTOR and DNA-PK inhibitor

Functions

A potent inhibitor of PI-3 kinase, mTOR and DNA-PK, IC₅₀ = 8, 88, 150, 48, 20, 83 and 2 nM for p110 α , p110 β , p110 γ , p110 δ , mTORC1, mTORC2 and DNA-PK respectively. Synergizes with arsenic disulfide to eradicate AML stem cells by induction of differentiation. Inhibits the growth of gefitinib-resistant non-small cell lung cancer cell lines. Induces autophagy in drug-resistant glioma. Protects against a-synuclein-induced toxicity in human neurons by induction of macroautophagy.

Application Procedures

First dissolved in DMSO (40 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

For research use only.