

# PFK15, 6-Phosphofructo-2-kinase (PFKFB3) inhibitor

Catalog	Unit
TBI4580-5MG	5 mg
TBI4580-25MG	25 mg

### **Product Details**

Formal Name: 1-(4-Pyridinyl)-3-(2-quinolinyl)-2-propen-1-one

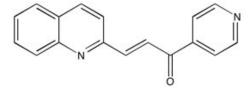
**Molecular Formula:** C<sub>17</sub>H<sub>12</sub>N<sub>2</sub>O **Formula Weight:** 260.29 **CAS Number:** 4382-63-2

**Purity:** >98%

Formulation: powder

**Solubility:** Soluble in DMSO (up to 15 mg/ml) or in Ethanol (up to 5 mg/ml)

**Storage:**  $-20^{\circ}$ C **Stability:**  $\geq 2$  years.



# **Applications**

6-Phosphofructo-2-kinase (PFKFB3) inhibitor

#### **Functions**

PFK15 is an inhibitor of the metabolic enzyme 6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3 (PFKFB3). PFKFB3 is constitutively expressed by neoplastic cells and is required for the high glycolytic rate (Warburg Effect) of these cells. PFK15 inhibits PFKFB3 (IC50 = 207 nM) without inhibiting 96 other kinases. PFK15 was able to potently inhibit glucose and F26BP uptake. It induced apoptosis and reduced tumor growth in vitro and in vivo. PFK15 has been shown to inhibit tumor growth in various cancer models.

#### **Application Procedures**

First dissolved in DMSO (up to 15 mg/ml) or in Ethanol (up to 5 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

For research use only.