**Product Name:** Berbamine

**Catalog Number:** T3S0807

**CAS Number:** 478-61-5

**Molecular Formula:** C37H40N2O6

**Molecular Weight:** 608.73

**Description:**
1. Berbamine has high binding affinity toward the (GGA);G-quadruplex.
2. Berbamine and its derivatives are promising agents to suppress liver cancer growth by targeting CAMKII.
3. Berbamine may be the first ATP-competitive inhibitor of CaMKII γ, could be as a new type of molecular targeted agent through inhibition of the CaMKII γ activity for treatment of leukemia.
4. Berbamine can enhance the antitumor activity of gemcitabine by inhibiting cell growth and inducing apoptosis, possibly through the regulation of the expression of apoptosis-related proteins and the activation of TGF-β/Smad signaling pathway.
5. Berbamine confers cardioprotection against I/R injury by attenuating [Ca(2+)i]i overloading and preventing calpain activation through the activation of the PI3K-Akt-GSK3β pathway and, subsequently, opening of the mitoK(ATP) channel.

**Storage:**
2 years -80°C in solvent; 3 years -20°C powder;

**Solubility**
- Chloroform: Soluble
- Dichloromethane: Soluble
- Ethyl Acetate: Soluble
- Acetone: Soluble
- DMSO: 91 mg/mL (149.5 mM)

(< 1 mg/ml refers to the product slightly soluble or insoluble)

**Receptor (IC50)**

**Reference**


**FOR RESEARCH PURPOSES ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

Information for product storage and handling is indicated on the product datasheet. Targetmol products are stable for long term under the recommended storage conditions. Our products may be shipped under different conditions as many of them are stable in the short-term at higher or even room temperatures. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, please follow the storage recommendations on the product data sheet.