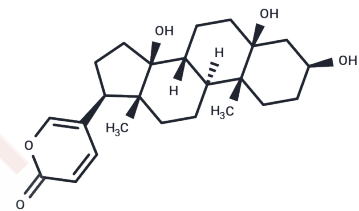


## Telocinobufagin

## Chemical Properties

CAS No. :	472-26-4
Formula:	C <sub>24</sub> H <sub>34</sub> O <sub>5</sub>
Molecular Weight:	402.52
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	1. Telocinobufagin (Telobufotoxin) is the major endogenous digitalis-like factor. 2. Telocinobufagin significantly decreases the bacterial burdens in the spleen and prolongs the survival time of FIST-immunized mice challenged with live <i>S. typhimurium</i> . 3. Telocinobufagin has immunomodulatory activity, can enhance a Th1 immune response to control intracellular infections, could be developed as a novel immunotherapeutic agent to treat cancer and other immune-mediated diseases.
Targets(IC50)	Apoptosis,ATPase,Others,Akt,STAT,JAK,mTOR,PI3K,PLK

## Solubility Information

Solubility	DMSO: 60 mg/mL (149.06 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.97 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	2.4843 mL	12.4217 mL	24.8435 mL
5 mM	0.4969 mL	2.4843 mL	4.9687 mL
10 mM	0.2484 mL	1.2422 mL	2.4843 mL
50 mM	0.0497 mL	0.2484 mL	0.4969 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Wu S C , Fu B D , Shen H Q , et al. Telocinobufagin enhances the Th1 immune response and protects against Salmonella typhimurium infection[J]. International Immunopharmacology, 2015, 25(2):353-362.

Ma X, Xu W, Jin X, et al. Telocinobufagin inhibits osteosarcoma growth and metastasis by inhibiting the JAK2/STAT3 signaling pathway. European Journal of Pharmacology. 2023: 175529.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481