

HUN47990

## Chemical Properties

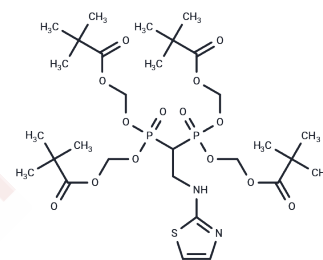
CAS No. : 1950647-99-0

Formula: C<sub>29</sub>H<sub>50</sub>N<sub>2</sub>O<sub>14</sub>P<sub>2</sub>S

Molecular Weight: 744.72

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	HUN47990 is a bisphosphonate (BP) prodrug with antitumor activity. HUN47990 potently inhibits the in vitro growth of a variety of tumor cell lines, especially hematopoietic cell lines, at nanomolar concentrations. HUN47990 inhibited the prenylation of the RAP1A small GTPase signaling protein at concentrations as low as 1-10 nM. HUN47990 slowed the growth of human bladder cancer cells in an immunodeficient mouse model. HUN47990 is significantly more active than zoledronic acid, the most active FDA-approved BP, and a potential anti-cancer therapeutic. HUN47990 was first reported in ChemMedChem. 2016 Dec 16;11(24):2656-2663 (compound 7). This product has no formal name at the moment. For the convenience of communication, a temporary code name was therefore proposed according to MedKoo Chemical Nomenclature (see web page: <a href="https://www.medkoo.com/page/naming">https://www.medkoo.com/page/naming</a> ).
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3428 mL	6.7139 mL	13.4279 mL
5 mM	0.2686 mL	1.3428 mL	2.6856 mL
10 mM	0.1343 mL	0.6714 mL	1.3428 mL
50 mM	0.0269 mL	0.1343 mL	0.2686 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.

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

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

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