

## YB-0158 ammonium

## Chemical Properties

CAS No. :

Formula: C<sub>32</sub>H<sub>40</sub>N<sub>9</sub>O<sub>7</sub>P

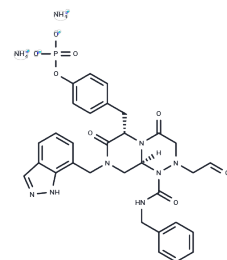
Molecular Weight: 693.69

Keep away from moisture

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	YB-0158 ammonium (Wnt pathway inhibitor 2 ammonium) is a reverse-rotation peptidomimetic small molecule with translation-enhancing potential and anticancer activity. YB-0158 ammonium disrupts Sam68-Src interaction and induces apoptosis in colorectal cancer cells, which can be used to study cancer.
Targets(IC50)	Apoptosis
In vitro	<p>b&gt;METHODS: YB-0158 ammonium (0.2 μM and 0.5 μM, 48 hours) treated HT29 cells</p> <p><b>RESULTS:</b> Lower doses of YB-0158 ammonium were sufficient to significantly reduce the proliferation of human CRC cells. When used at 0.5 μM, YB-0158 ammonium also significantly increased the apoptosis of CRC cells, as measured by the activated Caspase-3/7 detection assay. represent. [1]</p>
In vivo	<p>b&gt;METHODS: Primary mouse recipients were treated with YB-0158 ammonium (100 mg/kg), and the presence or absence of secondary tumors was determined by live fluorescence tumor imaging.</p> <p><b>RESULTS:</b> No significant differences in primary tumor size were observed in YB-0158 ammonium-treated mice compared to saline controls. [1]</p>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.4416 mL	7.2078 mL	14.4157 mL
5 mM	0.2883 mL	1.4416 mL	2.8831 mL
10 mM	0.1442 mL	0.7208 mL	1.4416 mL
50 mM	0.0288 mL	0.1442 mL	0.2883 mL

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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

Masibag AN, et al. Pharmacological targeting of Sam68 functions in colorectal cancer stem cells. *iScience*. 2021 Nov 14;24(12):103442.

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