

BX-2819

## Chemical Properties

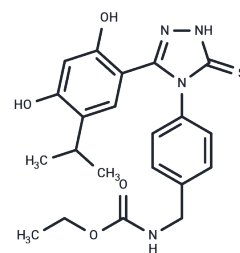
CAS No. : 1184181-50-7

Formula: C<sub>21</sub>H<sub>24</sub>N<sub>4</sub>O<sub>4</sub>S

Molecular Weight: 428.51

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	BX-2819 is an Hsp90 inhibitor that exhibits potent antiproliferative activity with an IC <sub>50</sub> of 41 nM . It effectively suppresses the growth of NCI-N87 and HT-29 tumor cells in nude mice[1].
Targets(IC <sub>50</sub> )	HSP
In vitro	BX-2819 (0.001-10 nM , 16 h) inhibits the expression of ErbB2 protein and significantly enhances the expression of Hsp70 in HT-29, OVCAR3, and SKBR3 cells [1].
In vivo	BX-2819 administered at 100 mg/kg intraperitoneally (i.p.) twice weekly substantially inhibited the expression of ErbB2 protein in NCI-N87 and SKOV3 tumor-bearing mice. Additionally, in HT-29 and NCI-N87 tumor models, it significantly reduced tumor growth and overall tumor burden [1]. A single dose of BX-2819 at 2 mg/kg given intravenously (i.v.) demonstrated a relatively short serum half-life (t <sub>1/2</sub> = 0.8 h), high clearance (CL = 159 mL/min/kg), and a large volume of distribution (V <sub>ss</sub> = 4.5 L) in mice [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3337 mL	11.6683 mL	23.3367 mL
5 mM	0.4667 mL	2.3337 mL	4.6673 mL
10 mM	0.2334 mL	1.1668 mL	2.3337 mL
50 mM	0.0467 mL	0.2334 mL	0.4667 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**

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