

NVP-TAE 684

## Chemical Properties

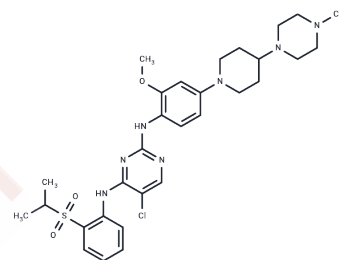
CAS No. : 761439-42-3

Formula: C<sub>30</sub>H<sub>40</sub>ClN<sub>7</sub>O<sub>3</sub>S

Molecular Weight: 614.2

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	NVP-TAE 684 (TAE684) is a excellently effective and specific ALK inhibitor(IC <sub>50</sub> =3 nM).
Targets(IC <sub>50</sub> )	Apoptosis,ALK
Kinase Assay	In vitro Enzyme Assays.: All in vitro enzyme assays are done at Upstate Biotechnology with the exception of InsR and IGF-1R. To determine the IC <sub>50</sub> of TAE684 against InsR and IGF-1R a homogeneous time-resolved fluorescence assay is performed. ATP (10 mM) and 20 mg/ml biotinylated PolyEY (Glu, Tyr 4:1) are combined with 50 nL of serial dilutions of TAE684 (10-500 nM) and 4 ng of InsR enzyme in the presence of the kinase reaction buffer (20 mM Tris-HCl, pH 7.5/10 mM MgCl <sub>2</sub> /3 mM MnCl <sub>2</sub> /1 mM DTT/10 mM NaVO <sub>4</sub> /0.1 mg/ml of BSA). Assays are incubated for 1 hour at ambient temperature. Reactions are terminated by adding 10 mL of the detection solution containing 50 mM EDTA, 500 mM KF, 0.5 mg/ml of BSA, 5 mg/mL Eu <sup>3+</sup> cryptate-labeled anti-phosphotyrosine antibody Mab PT66-K, and 5 mg/mL Streptavidin-XLent. The reaction is incubated for half an hour, and fluorescence signals are read on Analyst GT.
Cell Research	Cells are seeded in 384-well plates (2.5×10 <sup>4</sup> cells per well) and incubated with serial dilutions of TAE684 or DMSO for 2-3 days. Luciferase expression is used as a measure of cell proliferation/survival and is evaluated with the Bright-Glo Luciferase Assay System. IC <sub>50</sub> values are generated by using XLFit software.(Only for Reference)

## Solubility Information

Solubility	DMSO: 7.27 mg/mL (11.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.6281 mL	8.1407 mL	16.2813 mL
5 mM	0.3256 mL	1.6281 mL	3.2563 mL
10 mM	0.1628 mL	0.8141 mL	1.6281 mL
50 mM	0.0326 mL	0.1628 mL	0.3256 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

Galkin AV, et al. Proc Natl Acad Sci U S A, 2007, 104(1), 270-275.

Katayama R, et al. Proc Natl Acad Sci U S A, 2011, 108(18), 7535-7540.

Schönherr C, et al, Biochem J, 2011, 440(3), 405-413.

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