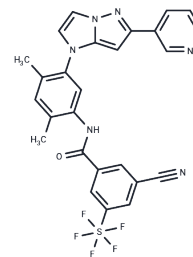


BAY-826

## Chemical Properties

CAS No. :	1448316-08-2
Formula:	C <sub>26</sub> H <sub>19</sub> F <sub>5</sub> N <sub>6</sub> O <sub>5</sub>
Molecular Weight:	558.53
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	BAY-826 is a novel, potent and selective TIE-2 inhibitor that inhibits TIE-2 phosphorylation and can be used to study tumors.
Targets(IC50)	Discoidin Domain Receptor (DDR),Tie-2
In vitro	BAY-826 is a selective and potent inhibitor of TIE-2 (dissociation constant = 1.6 nM) and binds with similar high affinity to only 4 of 456 tested kinases,namely, TIE-1,DDR1, DDR2, and Serine/threonine-protein kinase 10(LOK) (dissociation constant = 0.9, 0.4, 1.3, and 5.9 nM[1].
In vivo	A single oral dose of BAY-826 at 100, 50, or 25 mg/kg effectively inhibits ang-1-induced autophosphorylation of TIE-2 in mouse lungs[1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (143.23 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 (3.58 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

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	1mg	5mg	10mg
1 mM	1.7904 mL	8.9521 mL	17.9041 mL
5 mM	0.3581 mL	1.7904 mL	3.5808 mL
10 mM	0.179 mL	0.8952 mL	1.7904 mL
50 mM	0.0358 mL	0.179 mL	0.3581 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

Schneider H, et al. Novel TIE-2 inhibitor BAY-826 displays in vivo efficacy in experimental syngeneic murine glioma models. *J Neurochem.* 2017 Jan;140(1):170-182.

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