

PF-06305591

## Chemical Properties

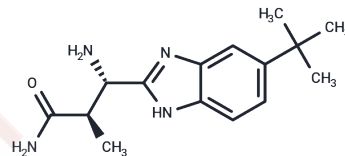
CAS No. : 1449473-97-5

Formula: C<sub>15</sub>H<sub>22</sub>N<sub>4</sub>O

Molecular Weight: 274.36

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                | PF-06305591 is an effective and selective blocker of voltage-gated sodium channel NaV1.8 (IC <sub>50</sub> = 15 nM). |
| Targets(IC <sub>50</sub> ) | Others,Sodium Channel  |
| In vitro                   | PF-06305591 shows high NaV selectivity, passive permeability, hERG activity, and in vitro metabolic stability[1].    |
| In vivo                    | PF-06305591 shows good bioavailability in rats and can be used in studies about the treatment of pain[1].            |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | DMSO: 45 mg/mL (164.02 mM),Sonication is recommended.<br>(< 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 (7.29 mM),Sonication is recommended.<br><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  | 3.6448 mL | 18.2242 mL | 36.4485 mL |
| 5 mM  | 0.729 mL  | 3.6448 mL  | 7.2897 mL  |
| 10 mM | 0.3645 mL | 1.8224 mL  | 3.6448 mL  |
| 50 mM | 0.0729 mL | 0.3645 mL  | 0.729 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

Brown AD, et al. The discovery and optimization of benzimidazoles as selective NaV1.8 blockers for the treatment of pain. *Bioorg Med Chem.* 2019 Jan 1;27(1):230-239.

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