

## Darovasertib

## Chemical Properties

CAS No. : 1874276-76-2

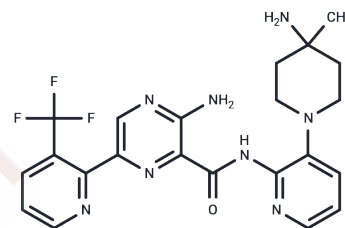
Formula: C<sub>22</sub>H<sub>23</sub>F<sub>3</sub>N<sub>8</sub>O

Molecular Weight: 472.47

Store at low temperature

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	Darovasertib (LXS196) is a potent, selective, and orally active protein kinase C (PKC) inhibitor with IC <sub>50</sub> values of 1.9 nM for PKC $\alpha$ , 0.4 nM for PKC $\theta$ , and 3.1 $\mu$ M for GSK3 $\beta$ .
Targets(IC <sub>50</sub> )	PKC
In vitro	An orally available protein kinase C (PKC) inhibitor with potential immunosuppressive and antineoplastic activities. Upon oral administration, protein kinase C inhibitor Darovasertib binds to and inhibits PKC, which prevents the activation of PKC-mediated signaling pathways. This may lead to the induction of cell cycle arrest and apoptosis in susceptible tumor cells. PKC, a serine/threonine protein kinase overexpressed in certain types of cancer cells, is involved in tumor cell differentiation, proliferation, invasion and survival.

## Solubility Information

Solubility	DMSO: 18.375 mg/mL (38.89 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: 4 mg/mL (8.47 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.1165 mL	10.5827 mL	21.1654 mL
5 mM	0.4233 mL	2.1165 mL	4.2331 mL
10 mM	0.2117 mL	1.0583 mL	2.1165 mL
50 mM	0.0423 mL	0.2117 mL	0.4233 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

Shoushtari A N , Shoushtari A N , Khan S , et al. A Phase Ib Study of Sotrastaurin, a PKC Inhibitor, and Alpelisib, a PI3K $\alpha$  Inhibitor, in Patients with Metastatic Uveal Melanoma[J]. Cancers, 2021, 13(21):5504-.

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