# Data Sheet (Cat.No.T14935)



#### Elexacaftor

### **Chemical Properties**

CAS No.: 2216712-66-0

Formula: C26H34F3N7O4S

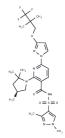
Molecular Weight: 597.65

Appearance: no data available

store at low temperature, keep away from direct

Storage: sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## **Biological Description**

Description	Elexacaftor (VX-445) is a modulator of cystic fibrosis transmembrane conductance regulator (CFTR) and it also facilitates the processing and trafficking of CFTR to increase the amount of CFTR at the cell surface.
Targets(IC50)	CFTR,Autophagy
In vitro	Elexacaftor (VX-445) has the potential to treat cystic fibrosis and it also is a next-generation cystic fibrosis transmembrane conductance regulator (CFTR) corrector designed to restore Phe508del CFTR protein function. VX-445-Tezacaftor-VX-770 significantly improves Phe508del CFTR protein processing, trafficking, chloride transport. To a greater extent than any two of these agents in dual combination[2].

## **Solubility Information**

Solubility	DMSO: 125 mg/mL (209.15 mM), Sonication is recommended.
	(< 1 mg/ml refers to the product slightly soluble or insoluble)

#### **Preparing Stock Solutions**

	1mg	5mg	10mg
1 mM	1.6732 mL	8.3661 mL	16.7322 mL
5 mM	0.3346 mL	1.6732 mL	3.3464 mL
10 mM	0.1673 mL	0.8366 mL	1.6732 mL
50 mM	0.0335 mL	0.1673 mL	0.3346 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.

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#### Reference

Alexander Russell Abela, et al. MODULATOR OF THE CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR , PHARMACEUTICAL COMPOSITIONS , METHODS OF TREATMENT , AND PROCESS FOR MAKING THE MODULATOR. US

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