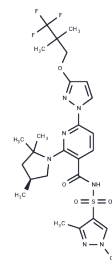


## Elexacaftor

## Chemical Properties

CAS No. :	2216712-66-0
Formula:	C <sub>26</sub> H <sub>34</sub> F <sub>3</sub> N <sub>7</sub> O <sub>4</sub> S
Molecular Weight:	597.65
Appearance:	no data available
Storage:	store at low temperature, keep away from direct sunlight
	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Elexacaftor (VX-445) is a cystic fibrosis transmembrane conductance regulator (CFTR) corrector. It promotes the processing and trafficking of CFTR, increases the amount of CFTR on the cell surface, and improves the processing and trafficking of Phe508del CFTR protein.
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].
In vivo	<b>METHODS:</b> Patients with the Phe508del-Phe508del genotype underwent a 4-week run-in of tezacaftor and ivacaftor and were randomized to receive either elexacaftor (VX-445) (200 mg orally daily) plus tezacaftor (100 mg daily) and ivacaftor (150 mg daily) or matching placebo plus tezacaftor and ivacaftor for 4 weeks. <b>RESULTS</b> Treatment with elexacaftor (VX-445)-tezacaftor-ivacaftor significantly increased the percentage predicted FEV1 by up to 13.8 percentage points in patients with the Phe508del-MF genotype and up to 11.0 percentage points in patients with the Phe508del-Phe508del genotype who were already receiving tezacaftor-ivacaftor.[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)
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### 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.

### 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 20180162839 A1.

Keating D, et al. VX16-445-001 Study Group. VX-445-Tezacaftor-Ivacaftor in Patients with Cystic Fibrosis and One or Two Phe508del Alleles. N Engl J Med. 2018 Oct 25;379(17):1612-1620.

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