## Elexacaftor

Cat. No.:	HY-111772				
CAS No.:	2216712-66-0				
Molecular 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				
Target:	CFTR; Autophagy				
Pathway:	Membrane Transporter/Ion Channel; Autophagy				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

## SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	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	
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.				
n Vivo	Solubility: ≥ 2.08 r	one by one: 10% DMSO >> 40% PEC ng/mL (3.48 mM); Clear solution one by one: 10% DMSO >> 90% cor		) >> 45% saline		

BIOLOGICAL ACTIV	
Description	Elexacaftor (VX-445, Compound 1) is a modulator of cystic fibrosis transmembrane conductance regulator (CFTR). Elexacaftor (VX-445, Compound 1) facilitates the processing and trafficking of CFTR to increase the amount of CFTR at the cell surface <sup>[1]</sup> .
IC <sub>50</sub> & Target	CFTR <sup>[1]</sup> .
In Vitro	Elexacaftor (VX-445) is a next-generation cystic fibrosis transmembrane conductance regulator (CFTR) corrector designed to restore Phe508del CFTR protein function. Elexacaftor (VX-445) has the potential to treat cystic fibrosis. VX-445-Tezacaftor-VX-770 significantly improves Phe508del CFTR protein processing, trafficking, and chloride transport to a greater extent than any two of these agents in dual combination <sup>[2]</sup> .

Product Data Sheet

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N= \_\_N\_\_\_



MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## **CUSTOMER VALIDATION**

- Am J Respir Crit Care Med. 2021 Aug 11.
- J Clin Invest. 2021 Aug 16;131(16):e150398.
- JCI Insight. 2020 Sep 17;5(18):e139983.
- Cells. 2022, 11(24), 4096.
- Structure. 2022 May 31;S0969-2126(22)00185-X.

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## REFERENCES

[1]. 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.

[2]. Keating D, et al. VX-445-Tezacaftor-VX-770 in Patients with Cystic Fibrosis and One or Two Phe508del Alleles. N Engl J Med. 2018 Oct 25;379(17):1612-1620.

Caution: Product has not been fully validated for medical applications. For research use only.

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