Elexacaftor

| Cat. No.: | HY-111772 | | | | |
|--------------------|--|-------|---------|--|--|
| CAS No.: | 2216712-66-0 | | | | |
| Molecular Formula: | C ₂₆ H ₃₄ F ₃ N ₇ O ₄ 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 ^[1] . |
| IC ₅₀ & Target | CFTR ^[1] . |
| 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 ^[2] . |

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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