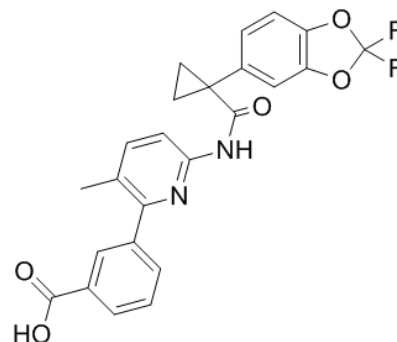


**Product Name** : VX-809  
**Cat. No.** : PC-43442  
**CAS No.** : 936727-05-8  
**Molecular Formula** : C<sub>24</sub>H<sub>18</sub>F<sub>2</sub>N<sub>2</sub>O<sub>5</sub>  
**Molecular Weight** :  
**Target** : CFTR  
**Solubility** : 10 mM in DMSO



## Biological Activity

VX-809 (Lumacaftor, VRT 826809) is a potent **CFTR corrector** that increases F508del-CFTR-mediated chloride transport and improves F508del-CFTR maturation in FRT cells with EC<sub>50</sub> of 0.1 and 0.5 μM, respectively.

VX-809 (Lumacaftor, VRT 826809) improves F508del-CFTR processing in the endoplasmic reticulum and enhances chloride secretion to approximately 14% of non-CF human bronchial epithelial cells (EC<sub>50</sub>=81 nM).

VX-809 (Lumacaftor, VRT 826809) exhibits biochemical and functional characteristics similar to normal CFTR, including biochemical susceptibility to proteolysis, residence time in the plasma membrane, and single-channel open probability after F508del-CFTR corrected by VX-809.

## References

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**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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