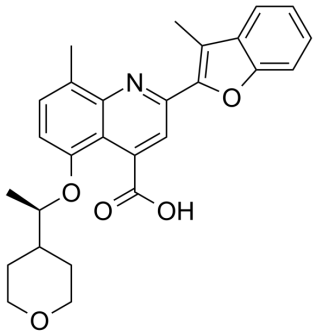
Posenacaftor

Cat. No.:	HY-109187
CAS No.:	2095064-05-2
Molecular Formula:	$C_{27}H_{27}NO_5$
Molecular Weight:	445.51
Target:	CFTR
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Posenacaftor (PTI-801) is a cystic fibrosis transmembrane regulator (CFTR) protein modulator that corrects the folding and trafficking of CFTR protein. Posenacaftor is used for the research of cystic fibrosis (CF)[1].
In Vitro	Cystic fibrosis (CF) is an autosomal recessive disorder, caused by mutations of the cystic fibrosis transmembrane conductance regulator (CFTR)[1]. CFTR is a cAMP-regulated chloride channel that is primarily located at the apical membrane of epithelial cells. Mutations in the CFTR gene lead to the production of a defective and misfolded CFTR protein, and impairs the flow of ions in and out of cells[1]. Posenacaftor is a CFTR corrector, correctors are designed to fix and restore the function of the defective CFTR protein. The corrected CFTR then moves to the cell surface, where it functions as a chloride channel and helps maintain the right balance of fluid in the airways[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Benjamin Kopp, et al. Compositions et procédés pour améliorer la fonction cftr dans des cellules affectées par la fibrose kystique. Patent WO2019156946.

[2]. Posenacaftor (PTI-801)

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