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## Product Data Sheet

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Product Name: (R)-Posenacaftor sodium

Cat. No.: GC62513

### Chemical Properties

Cas. No. 2095064-09-6

Formula  $C_{27}H_{26}NNaO_5$

M.Wt 467.49

Solubility DMSO : 38.33 mg/mL (81.99 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

(R)-Posenacaftor (R)-PTI-801) sodium is the R enantiomer of Posenacaftor. Posenacaftor 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].

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].

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

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

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