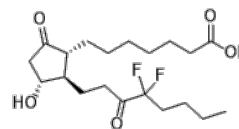


Product Name : Lubiprostone
Cat. No. : PC-25678
CAS No. : 136790-76-6
Molecular Formula : C₂₀H₃₂F₂O₅
Molecular Weight : 390.47
Target : Chloride Channel
Solubility : 10 mM in DMSO



Biological Activity

Lubiprostone (SPI-0211) is a potent, selective type 2 chloride channel (CLC-2) activator, increases electrogenic Cl⁻ transport across the apical membrane of T84 cells with EC₅₀ of 18 nM.

Lubiprostone (SPI-0211) activates CLC-2 Cl⁻ currents in HEK293 cell line stably transfected with either recombinant human CLC-2 measured by whole cell patch clamp with EC₅₀ of 17 nM.

Lubiprostone (SPI-0211) shows no effect on CFTR Cl⁻ channel currents measured in CFTR-transfected HEK-293 cells.

Lubiprostone (SPI-0211) induces the passive movement of sodium and water into the intestinal lumen, yielding a net increase in isotonic fluid, induces intestinal secretion.

References

Camilleri M, et al. Am J Physiol Gastrointest Liver Physiol. 2006 May;290(5):G942-7.

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

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