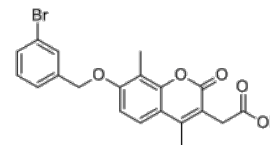


Product Name : DRAinh-A250
Cat. No. : PC-35541
CAS No. : 858747-13-4
Molecular Formula : C₂₀H₁₇BrO₅
Molecular Weight : 417.255
Target : Chloride Channel
Solubility : 10 mM in DMSO



Biological Activity

DRAinh-A250 is a specific inhibitor of Cl⁻/anion exchanger **SLC26A3 (DRA)**, fully and reversibly inhibits SLC26A3-mediated Cl⁻ exchange with HCO₃⁻, I⁻, and thiocyanate (SCN⁻) with IC₅₀ of ~0.2 μM.

DRAinh-A250 does not inhibit the homologous anion exchangers SLC26A4 (pendrin) or SLC26A6 (PAT-1), as well as other related proteins or intestinal ion channels.

DRAinh-A250 blocked fluid absorption in closed colonic loops but not in jejunal loops in mice, while the NHE3 (SLC9A3) inhibitor tenapanor blocked absorption only in the jejunum.

DRAinh-A250 reduces signs of constipation in loperamide-treated mice after oral treatment.

References

Haggie PM, et al. *JCI Insight*. 2018 Jul 26;3(14). pii: 121370.

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

E-mail: tech@probechem.com