

Data Sheet (Cat.No.TP2027)

GaTx2

Chemical Properties

CAS No.: 194665-85-5
 Formula: C125H199N39O47S6
 Molecular Weight: 3192.54
 Appearance: N/A
 Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Very high affinity ClC-2 blocker (apparent KD ~ 50 pM). Slows ClC-2 activation and inhibits slow-gating but does not inhibit open ClC-2 channels. Selective for ClC-2 over other ClC family members (ClC-0, ClC-1, ClC-3 and ClC-4), CFTR, GABAC, CaCC and KV1.2.
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Solubility Information

Solubility	water: 1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.313 mL	1.566 mL	3.132 mL
5 mM	0.063 mL	0.313 mL	0.626 mL
10 mM	0.031 mL	0.157 mL	0.313 mL
50 mM	0.006 mL	0.031 mL	0.063 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Schiffhauer et al (2013) Dual activation of CFTR and CLCN2 by lubipro. in murine nasal epithelia. Am.J.Physiol.Lung Cell Mol.Physiol. 304 L324 PMID:
- Thompson et al (2009) Isolation and characterization of a high affinity peptide inhibitor of ClC-2 chloride channels. J.Biol.Chem. 284 26051 PMID:

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481