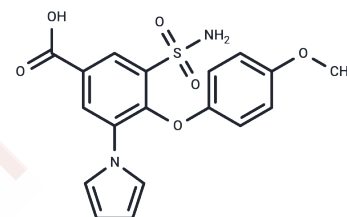


H100

## Chemical Properties

CAS No. : 643727-55-3  
 Formula: C<sub>18</sub>H<sub>16</sub>N<sub>2</sub>O<sub>6</sub>S  
 Molecular Weight: 388.4  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



## Biological Description

Description	H100 is a Cl <sup>-</sup> transport inhibitor, no effect against KCl cotransporter. It has partial effects against both the NaK <sub>2</sub> Cl cotransporter and the Band 3 anion exchanger.
Targets(IC <sub>50</sub> )	Others, Chloride channel
In vitro	H100 (0.1 mM) demonstrates significant inhibitory activity on chloride transport in human erythrocytes, with 63% and 74% inhibition of the NaK <sub>2</sub> Cl cotransporter (NKCC) and the Band 3 anion exchanger (AE), respectively. It acts as a Cl <sup>-</sup> transport inhibitor, selectively targeting NKCC and AE without affecting the KCl cotransporter (KCC).

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5747 mL	12.8733 mL	25.7467 mL
5 mM	0.5149 mL	2.5747 mL	5.1493 mL
10 mM	0.2575 mL	1.2873 mL	2.5747 mL
50 mM	0.0515 mL	0.2575 mL	0.5149 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Culliford S1, et al. Specificity of classical and putative Cl<sup>-</sup> transport inhibitors on membrane transport pathways in human erythrocytes. Cell Physiol Biochem. 2003;13(4):181-8.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481