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**Product Data Sheet**


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Product Name: Surfen  
 Cat. No.: GC50529

**Chemical Properties**

Cas. No. 5424-37-3

SMILES CC1=NC2=CC=C(C=C2C(N)=C1)NC(NC3=CC=C4N=C(C=C(C4=C3)N)C)=O.Cl.Cl

Formula  $C_{21}H_{20}N_6O \cdot 2HCl$  M.Wt 445.35

Solubility  $H_2O$  : 8 mg/mL (17.96 mM; Need ultrasonic and warming) 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**

Heparin sulfate antagonist. Inhibits heparin sulfate-mediated cell attachment in vitro. Maintains hESCs in a pluripotent state by reversible inhibition of glycan-growth factor interactions.

Schuksz et al (2008) Surfen, a small molecule antagonist of heparan sulfate. Proc.Natl.Acad.Sci.USA 105 13074 PMID:18725627 |Huang et al (2018) Small molecule antagonist of cell surface glycosaminoglycans restricts mouse embryonic stem cells in a pluripotent state. Stem Cells. 36 45 PMID:28984039

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

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