



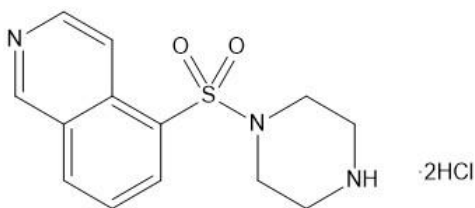
**Catalog # 10-1609**

**HA-100 2HCl**

CAS# 85568-24-6

5-(1-Piperazinylsulfonyl)isoquinoline dihydrochloride

Lot # X106237



Inhibits the following kinases PKG (IC<sub>50</sub>=4 mM), PKA (IC<sub>50</sub>=8 mM), PKC (IC<sub>50</sub>=12 mM).<sup>1</sup> Increases human fibroblast reprogramming efficiency with PD0325901, CHIR99021, A83-01 and hLIF.<sup>2</sup> Improves single cell survival and supports high cloning efficiency in human pluripotent stem cells.<sup>3</sup>

- 1) Hagiwara *et al.* (1987), *Selective modulation of calcium-dependent myosin phosphorylation by novel protein kinase inhibitors, isoquinolinesulfonamide derivatives*; Mol. Pharmacol., **32** 7
- 2) Yu *et al.* (2011), *Efficient feeder-free episomal reprogramming with small molecules*; PLoS One, **6**(3) e17557
- 3) Chen *et al.* (2011), *Chemically defined conditions for human iPSC derivation and culture*; Nature Methods, **8** 424

#### **PHYSICAL DATA**

Molecular Weight: 350.26  
Molecular Formula: C<sub>13</sub>H<sub>15</sub>N<sub>3</sub>O<sub>2</sub>S · 2HCl  
Purity: 98% by HPLC  
NMR: (Conforms)  
Solubility: DMSO (up to 30 mg/ml) or Water (40 mg/ml)  
Physical Description: White or off-white solid  
Storage and Stability: Store as supplied desiccated at -20°C for up to 2 years from the date of purchase.  
Solutions in DMSO or distilled water may be stored at -20°C for up to 2 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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