

# H-89

## Product Specifications

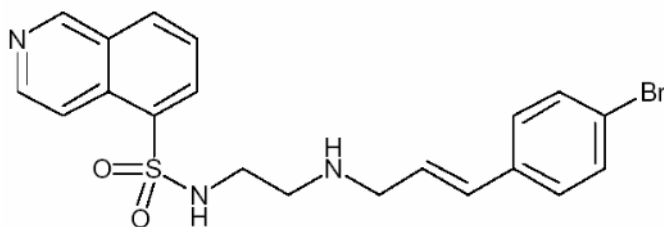
<b>Catalog Number:</b>	HPK-105												
<b>Application Notes:</b>	Not sterile <i>The optimal dilution for a specific application must be determined by the investigator</i>												
<b>Molecular Weight:</b>	519.2												
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>20</sub> BrN <sub>3</sub> O <sub>2</sub> S · 2HCl												
<b>Purity:</b>	99% by TLC analysis												
<b>Format:</b>	Off-white solid (m.p. 141-143°C), soluble in DMSO (25 mg/mL) and 50% ethanol/water (20mg/mL)												
<b>Concentration:</b>	See product label												
<b>Storage:</b>	Store at 4°C 1 year; store solutions at -20°C for 4 months in DMSO <i>Shipping conditions may differ from the recommended storage temperature</i>												
<b>Related Products:</b>	<table border="0"> <tr> <td>EKS-390A</td> <td>PKA Kinase Activity Kit</td> </tr> <tr> <td>HPK-108</td> <td>PKA Inhibitor 14-22 Amide, Myristoylated</td> </tr> <tr> <td>KAP-PK001</td> <td>PKA (NT) Polyclonal Antibody</td> </tr> <tr> <td>KAS-PK017</td> <td>PKA (CT) Polyclonal Antibody</td> </tr> <tr> <td>PPK-448</td> <td>PKA Catalytic β Active Recombinant Protein</td> </tr> <tr> <td>PPK-463</td> <td>PKA Catalytic γ Active Recombinant Protein</td> </tr> </table>	EKS-390A	PKA Kinase Activity Kit	HPK-108	PKA Inhibitor 14-22 Amide, Myristoylated	KAP-PK001	PKA (NT) Polyclonal Antibody	KAS-PK017	PKA (CT) Polyclonal Antibody	PPK-448	PKA Catalytic β Active Recombinant Protein	PPK-463	PKA Catalytic γ Active Recombinant Protein
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## Background:

H-89 (N-[2-(p-Bromocinnamylamino)ethyl]-5-isoquinolinesulfonamide·2HCl) is a widely used potent, and selective cell permeable inhibitor of PKA ( $K_i = 48 \text{ nM}$ )<sup>1-3</sup>. The working concentration range for cultured cells is 30-100 μM, as displayed in osteoblastic cells<sup>4</sup>, renal proximal tubule cells<sup>5</sup>, and Xenopus oocytes<sup>6</sup>.

### References:

1. Chijiwa, T. *et al.* (1990) J Biol Chem. **265**, 5267-5272.
2. Muroi, M. and Suzuki, T. (1993) Cell Signal **5**, 289-298.
3. Fujihara, M. *et al.* (1993) J Biol Chem. **268**, 14898-14905.
4. Azarani, A. *et al.* (1995) J Biol Chem. **270**, 23166-23172.
5. Azarani, A. *et al.* (1995) J Biol Chem. **270**, 20004-20010.
6. Busch, S. *et al.* (1995) J Biol Chem. **270**, 17898-17901.



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