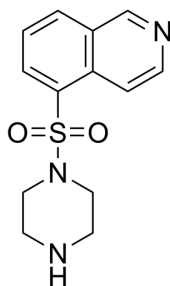


Certificate of Analysis

Product Name: HA-100
Cat. No.: CS-0020664
CAS No.: 84468-24-6
Batch No.: 27952
Chemical Name: Isoquinoline, 5-(1-piperazinylsulfonyl)-

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C₁₃H₁₅N₃O₂S
Molecular Weight: 277.34
Storage: Storage temp. 2-8°C
Chemical Structure:



ANALYTICAL DATA

Appearance: White to off-white (Solid)
¹H NMR Spectrum: Consistent with structure
LCMS: Consistent with structure
Purity (LCMS): 99.87%
Conclusion: The product has been tested and complies with the given specifications.

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

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