

---

**Certificate of Analysis**

---

Product Name: FR122047 (hydrate)  
Cat. No.: GC13132  
Batch No.: 1  
Chemical Name: 1-[[4,5-*bis*(4-methoxyphenyl)-2-thiazolyl]carbonyl]-4-methyl-piperazine, monohydrochloride, monohydrate

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.:  
Molecular Formula:  $C_{23}H_{25}N_3O_3S \cdot HCl [H_2O]$   
Molecular Weight: 478.0  
Storage: Store at -20°C  
Chemical Structure:

**ANALYTICAL DATA**

Appearance: solid  
HNMR: Consistent with structure  
HPLC: Consistent with structure  
Purity: >98%  
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.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---