

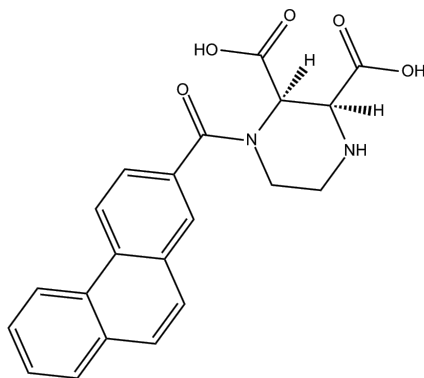
Certificate of Analysis

Product Name: PPDA
Cat. No.: GC10247
Batch No.: 1
Chemical Name: (2R,3S)-1-(phenanthrene-2-carbonyl)piperazine-2,3-dicarboxylic acid

PHYSICAL AND CHEMICAL PROPERTIES

Cas. No.: 684283-16-7
Molecular Formula: $C_{21}H_{18}N_2O_5$
Molecular Weight: 378.38
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