

Certificate of Analysis

www.tocris.com

Product Name: ARP 101

Catalog No.: 2622

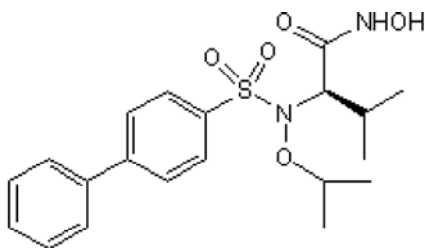
Batch No.: 2

CAS Number: 849773-63-3

IUPAC Name: (R)-N-Hydroxy-2-(N-isopropoxybiphenyl-4-ylsulfonamido)-3-methylbutanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|---|
| Batch Molecular Formula: | C ₂₀ H ₂₆ N ₂ O ₅ S |
| Batch Molecular Weight: | 406.5 |
| Physical Appearance: | White solid |
| Solubility: | DMSO to 100 mM ethanol to 25 mM |
| Storage: | Desiccate at +4°C |
| Batch Molecular Structure: | |



2. ANALYTICAL DATA

| | |
|-----------------------|---------------------------|
| HPLC: | Shows 99.2% purity |
| Mass Spectrum: | Consistent with structure |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: ARP 101

Catalog No.: 2622

Batch No.: 2

CAS Number: 849773-63-3

IUPAC Name: (R)-N-Hydroxy-2-(N-isopropoxybiphenyl-4-ylsulfonamido)-3-methylbutanamide

Description:

Selective inhibitor of MMP-2 that displays ~ 600-fold selectivity over MMP-1 (IC₅₀ values are 0.81 and 486 nM respectively).

Physical and Chemical Properties:

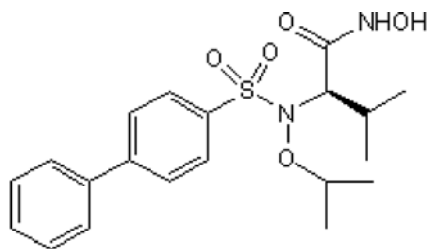
Batch Molecular Formula: C₂₀H₂₆N₂O₅S

Batch Molecular Weight: 406.5

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Other Information:

Note: NMR, Optical rotation and Microanalysis are not carried out on every batch for this product

References:

Tuccinardi *et al* (2006) Amber force field implementation, molecular modelling study, synthesis and MMP-1/MMP-2 inhibition profile of (R)- and (S)-N-hydroxy-2-(N-isopropoxybiphenyl-4-ylsulfonamido)-3 methylbutanamides. *Bioorg.Med.Chem.* **14** 4260. PMID: 16483784.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956