

Product Name: ARP 100

Catalog No.: 2621

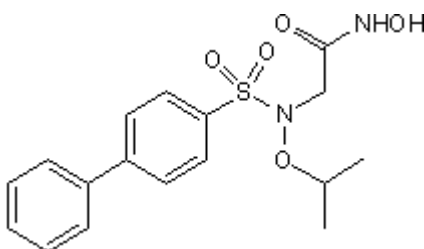
Batch No.: 7

CAS Number: 704888-90-4

IUPAC Name: 2-[[[(1,1'-Biphenyl)-4-ylsulfonyl]-(1-methylethoxy)amino]-*N*-hydroxyacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₀N₂O₅S
Batch Molecular Weight: 364.42
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.03	5.53	7.69
Found	56.2	5.61	7.52

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

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Description:

Selective inhibitor of MMP-2 (IC₅₀ = 12 nM); displays selectivity over MMP-9, MMP-3, MMP-1 and MMP-7 (IC₅₀ values are 200, 4500, > 50000 and > 50000 nM respectively). Exhibits anti-invasive properties in HT1080 fibrosarcoma cells.

Physical and Chemical Properties:

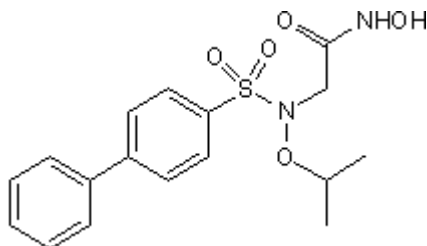
Batch Molecular Formula: C₁₇H₂₀N₂O₅S

Batch Molecular Weight: 364.42

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Rossello et al (2004) New *N*-arylsulfonyl-*N*-alkoxyaminoacetohydroxamic acids as selective inhibitors of gelatinase A (MMP-2). *Bioorg.Med.Chem.* **12** 2441. PMID: 15080939.

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-ylsulfonylamido)-3 methylbutanamides. *Bioorg.Med.Chem.* **14** 4260. PMID: 16483784.

Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 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.

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