

**Product Name:** ARP 100

**Catalog No.:** 2621

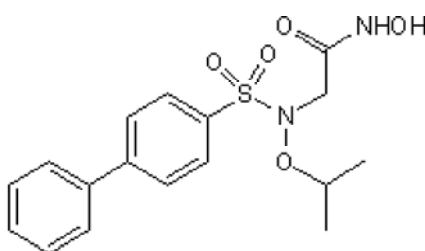
**Batch No.:** 8

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:** C<sub>17</sub>H<sub>20</sub>N<sub>2</sub>O<sub>5</sub>S  
**Batch Molecular Weight:** 364.42  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.1% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.03	5.53	7.69
Found	55.93	5.54	7.64

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**Description:**

ARP 100 is a selective inhibitor of MMP-2 (IC<sub>50</sub> = 12 nM); displays selectivity over MMP-9, MMP-3, MMP-1 and MMP-7 (IC<sub>50</sub> values are 200, 4500, > 50000 and > 50000 nM respectively). Exhibits anti-invasive properties in HT1080 fibrosarcoma cells.

**Physical and Chemical Properties:**

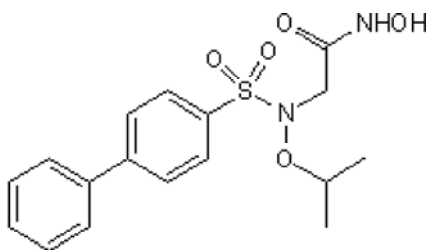
Batch Molecular Formula: C<sub>17</sub>H<sub>20</sub>N<sub>2</sub>O<sub>5</sub>S

Batch Molecular Weight: 364.42

Physical Appearance: Off White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**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.

**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.

**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.

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