

**Product Name:** WAY 170523

**Catalog No.:** 2633

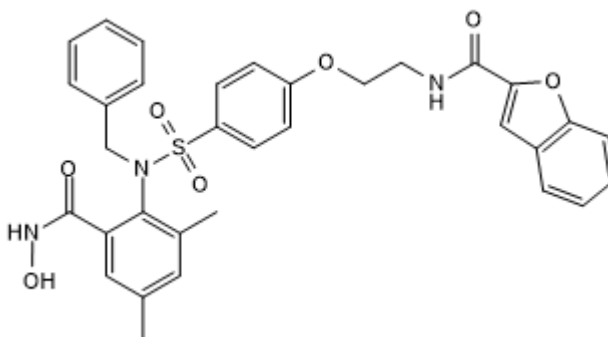
**Batch No.:** 2

CAS Number: 307002-73-9

IUPAC Name: *N*-[2-[4-[[[2-[(Hydroxyamino)carbonyl]-4,6-dimethylphenyl]](phenylmethyl)amino]sulfonyl]phenoxy]ethyl]-2-benzofurancarboxamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>33</sub>H<sub>31</sub>N<sub>3</sub>O<sub>7</sub>S  
**Batch Molecular Weight:** 613.68  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.3 (Ethyl acetate:Petroleum ether [2:3])  
**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	64.59	5.09	6.85
Found	64.27	5.1	6.74

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

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**Description:**

Potent and selective inhibitor of MMP-13 (IC<sub>50</sub> values are 17, 945, > 1000 and > 10000 nM for MMP-13, MMP-9, TACE and MMP-1 respectively).

**Physical and Chemical Properties:**

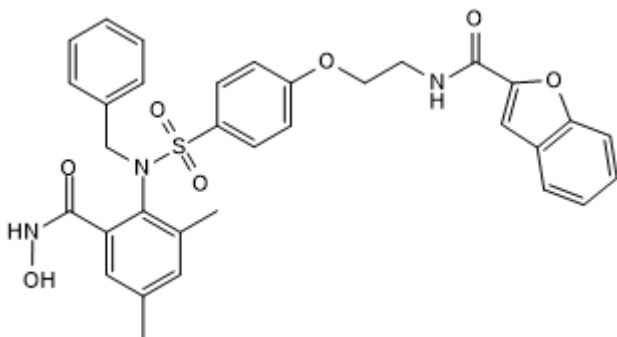
Batch Molecular Formula: C<sub>33</sub>H<sub>31</sub>N<sub>3</sub>O<sub>7</sub>S

Batch Molecular Weight: 613.68

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 100 mM

When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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:**

**Jaffré et al** (2012)  $\beta$ -adrenergic receptor stimulation transactivates protease-activated receptor 1 via matrix metalloproteinase 13 in cardiac cells. *Circulation* **125** 2993. PMID: 22610965.

**Chen et al** (2000) Structure-based design of a novel, potent, and selective inhibitor for MMP-13 utilizing NMR spectroscopy and computer-aided molecular design. *J.Am.Chem.Soc.* **122** 9648.

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