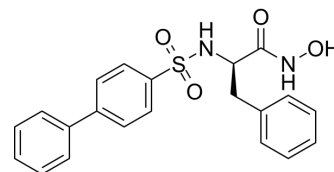


## BPHA

Cat. No.:	HY-114785
CAS No.:	193807-60-2
Molecular Formula:	C <sub>21</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	396.46
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	BPHA is a potent and orally active MMP-2, MMP-9 and MMP-14 inhibitor with IC <sub>50</sub> s of 12 nM, 16 nM and 17 nM, respectively. BPHA does not inhibit MMP-1, -3, and -7 (the IC <sub>50</sub> s are 974, >1000, and 795 nM, respectively). BPHA has antiangiogenic and antitumor effects <sup>[1]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	MMP-2 12 nM (IC <sub>50</sub> )	MMP-9 16 nM (IC <sub>50</sub> )	MMP-14 17 nM (IC <sub>50</sub> )	MMP-1 974 nM (IC <sub>50</sub> )
	MMP-3 >1000 nM (IC <sub>50</sub> )	MMP-7 795 nM (IC <sub>50</sub> )		
<b>In Vitro</b>	BPHA does not inhibit typical serine proteinases (neutrophil elastase, plasmin, trypsin, and chymotrypsin), cysteine proteinases (cathepsins B and L), aspartic proteinase (HIV-1 protease), or metalloproteinase (aminopeptidase M) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
<b>In Vivo</b>	Daily oral administration of 200 mg/kg BPHA in mice results in potent inhibition of tumor-induced angiogenesis, primary tumor growth, and liver metastasis. The growth inhibition activity of BPHA is 48% and 45% in a B16-BL6 melanoma and F2 hemangio-endothelioma model, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

## REFERENCES

[1]. R Maekawa, et al. Correlation of antiangiogenic and antitumor efficacy of N-biphenyl sulfonyl-phenylalanine hydroxamic acid (BPHA), an orally-active, selective matrix metalloproteinase inhibitor. *Cancer Res.* 1999 Mar 15;59(6):1231-5.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA