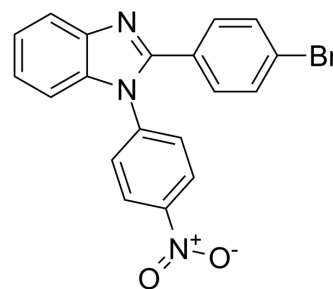


## COX-2-IN-16

Cat. No.:	HY-147719
CAS No.:	1610894-92-2
Molecular Formula:	C <sub>19</sub> H <sub>12</sub> BrN <sub>3</sub> O <sub>2</sub>
Molecular Weight:	394.22
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	COX-2-IN-16 (compound 2b) is a potent, selective and orally active COX-2 inhibitor with an IC <sub>50</sub> of 102 μM. COX-2-IN-16 inhibits the NO production. COX-2-IN-16 shows anti-inflammatory activity <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	COX-2 102 μM (IC <sub>50</sub> )
<b>In Vivo</b>	COX-2-IN-16 (compound 2b) (100 mg/kg; p.o.) shows better reduction in the edema formation by 42% in a rat paw edema model <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. García-Aranda MI, et al. Anti-inflammatory effect and inhibition of nitric oxide production by targeting COXs and iNOS enzymes with the 1,2-diphenylbenzimidazole pharmacophore. *Bioorg Med Chem*. 2020 May 1;28(9):115427.

**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