## COX-2/PI3K-IN-2

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-147912 2459938-28-2 C <sub>16</sub> H <sub>17</sub> N <sub>5</sub> O <sub>2</sub> 311.34 PI3K; COX PI3K/Akt/mTOR; Immunology/Inflammation Please store the product under the recommended conditions in the Certificate of	
	Analysis.	

BIOLOGICAL ACTIVITY				
Description	COX-2/PI3K-IN-2 (compound 5f) is a potent PI3K inhibitor with IC <sub>50</sub> value of 2.78 nM. COX-2/PI3K-IN-2 is a sele inhibitor with K <sub>i</sub> value of 3.02 nM. COX-2/PI3K-IN-2 shows anti-inflammatory and anti-cancer properties <sup>[1]</sup> .			
IC <sub>50</sub> & Target	PI3K 2.78 nM (IC <sub>50</sub> )	COX-2 3.02 nM (Ki)		
In Vitro	cells <sup>[1]</sup> .	5f) (50-500 μg/mL, 72 hours) exerts potent antitumor activities against Breast cancer (MCF-7) 5f) (10-150 μg/mL) has antioxidant properties with H <sub>2O2 scavenging activity equivalent to ascorbic acid and higher lysozyme inhibition (IC methods. They are for reference only. Breast cancer (MCF-7) cells and normal breast epithelial (MCF-10A) cells 50-500 μg/mL 72 hours Caused 40 % cell death at 1.65 μM in MCF-7 cells.</sub>		

## REFERENCES

[1]. Rajesh Kumar M, et al. p-TSA.H2O mediated one-pot, multi-component synthesis of isatin derived imidazoles as dual-purpose drugs against inflammation and cancer. Bioorg Chem. 2020 Sep;102:104046.

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

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