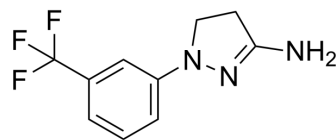


BW 755C

Cat. No.:	HY-119671		
CAS No.:	66000-40-6		
Molecular Formula:	C ₁₀ H ₁₀ F ₃ N ₃		
Molecular Weight:	229.2		
Target:	COX; Lipoxygenase		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (436.30 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	4.3630 mL	21.8150 mL	43.6300 mL
5 mM	0.8726 mL	4.3630 mL	8.7260 mL
10 mM	0.4363 mL	2.1815 mL	4.3630 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

BW 755C is a 5-lipoxygenase (5-LO) inhibitor with an IC₅₀ of 5 μM. BW 755C also inhibits cyclooxygenase (COX) with IC₅₀s of 0.65 and 1.2 μg/mL against COX-1 and COX-2, respectively^{[1][2]}.

IC₅₀ & Target

5-LO	COX-1	COX-2
5 μM (IC ₅₀)	0.65 μg/mL (IC ₅₀)	1.2 μg/mL (IC ₅₀)

In Vivo

BW 755C (0.03-10 mg/rat; s.c.; once) inhibits the ovulation rate and ovarian levels of 5-HETE and 12-HETE in rats^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Immature Wistar rats ~22 days of age ^[3]
Dosage:	0.03, 0.1, 0.3, 1.0, 3.1 and 10 mg/rat
Administration:	Subcutaneous injection, once
Result:	Reduced 5-HETE (moderately) and 12-HETE (strongly).

REFERENCES

- [1]. Hlasta DJ, et al. 5-Lipoxygenase inhibitors: the synthesis and structure-activity relationships of a series of 1-phenyl-3-pyrazolidinones. *J Med Chem.* 1991 May;34(5):1560-70.
- [2]. Mitchell JA, et al. Selectivity of nonsteroidal antiinflammatory drugs as inhibitors of constitutive and inducible cyclooxygenase. *Proc Natl Acad Sci U S A.* 1993 Dec 15;90(24):11693-7.
- [3]. Tanaka N, et al. Comparison of inhibitory actions of indomethacin and epostane on ovulation in rats. *Am J Physiol.* 1991 Feb;260(2 Pt 1):E170-4.
-

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