Product Data Sheet

KB-5492 free base

Cat. No.: HY-47228 CAS No.: 113594-64-2 Molecular Formula: $C_{23}H_{30}N_{2}O_{6}$ Molecular Weight: 430.49

Target: Sigma Receptor Pathway: **Neuronal Signaling**

Storage: Powder -20°C 3 years

> 4°C 2 years

-80°C In solvent 6 months

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (232.29 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3229 mL	11.6147 mL	23.2293 mL
	5 mM	0.4646 mL	2.3229 mL	4.6459 mL
	10 mM	0.2323 mL	1.1615 mL	2.3229 mL

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

סום	ו אכו	~ 1	ACTI\	HTV
BIU		U.AI	AU. III	V

Description	KB-5492 free base is a potent and selective inhibitor of sigma receptor, inhibits specific $[^3H]1,3$ -di(2-tolyl)guanidine (DTG) binding to the sigma receptor with an IC $_{50}$ of 3.15 μ M. KB-5492 free base is an anti-ulcer agent $[^1][^2]$.
IC ₅₀ & Target	IC50: 3.15 μ M (sigma receptor) $^{[1]}$
In Vitro	KB-5492 (0.001-100 μ M) free base inhibits specific [3 H]DTG binding in a concentration-dependent manner [1]. KB-5492 (0.1-1 mM) free base significantly and concentration-dependently prevents the ethanol- and acidified aspirin-induced increases in 5 1Cr release from gastric epithelial cells [2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	KB-5492 (200 mg/kg; p.o.) free base prevents macroscopic lesions in the gastric mucosa ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: Male Sprague-Dawley rats weighing 210-240 g are induced gastric mucosal damage ^[2]

Dosage:	200 mg/kg
Administration:	Oral gavage
Result:	Reduced the lesion length as compared with the control. Prevented the deep mucosal lesions and exfoliation of surface epithelial cells.

REFERENCES

[1]. Harada Y, et, al. Receptor binding profiles of KB-5492, a novel anti-ulcer agent, at sigma receptors in guinea-pig brain. Eur J Pharmacol. 1994 May 2; 256(3): 321-8.

[2]. Morimoto Y, et, al. Effects of KB-5492, a new anti-ulcer agent, on ethanol- and acidified aspirin-induced gastric mucosal damage in vivo and in vitro. Jpn J Pharmacol. 1994 Jan; 64(1): 41-7.

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

Tel: 609-228-6898

Fax: 609-228-5909

 $\hbox{E-mail: } tech @ Med Chem Express.com$

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