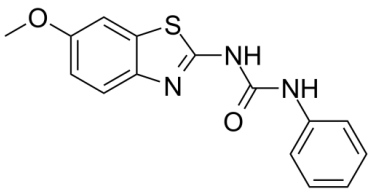
Data Sheet

Product Name:	Frentizole
Cat. No.:	CS-0841
CAS No.:	26130-02-9
Molecular Formula:	C15H13N3O2S
Molecular Weight:	299.35
Target:	Amyloid-β
Pathway:	Neuronal Signaling
Solubility:	DMSO : ≥ 3 mg/mL (10.02 mM)



BIOLOGICAL ACTIVITY:

Frentizole, an FDA-approved immunosuppressive drug, is a novel inhibitor of the Aβ-ABAD interaction. IC50 value: Target: Aβ-ABAD interaction

PROTOCOL (Extracted from published papers and Only for reference)

Animal administration [2] ND4 specific-pathogen-free male mice weighed 12 to 14 g for virus studies and 18 to 20 g for all other studies. Frentizole and azathioprine were individually tested. Each drug was suspended separately in saline by grinding in a Tenbrook tissue homogenizer. The final drug suspensions (0.25 ml) were administered subcutaneously to the nuchal neck region. Drugs were administered daily for 10 days prior to inducing infection. In all cases, except the 3-day Pseudomonas experiments, treatment was continued until the termination of each group of experiments by parameters described below. For each dose level of drugs tested, 10 to 20 animals were used.

References:

[1]. I I Scheetz ME, D G Carlson, and M R Schinitsky Frentizole, a novel immunosuppressive, and azathioprine: their comparative effects on host resistance to Pseudomonas aeruginosa, Candida albicans, herpes simplex virus, and influenza (Ann Arbor) virus. Infect Immun. 1977 January; 15(1): 145-148.

[2]. Hatfield SM, Hartley LW, Schmidtke JR. The immunomodulatory action of frentizole, a novel immunosuppressive agent. Immunopharmacology. 1982 Dec;5(2):169-79.

[3]. Xie, Yuli; Deng, Shixian; Chen, Zhenzhang et al. Identification of small-molecule inhibitors of the Aβ-ABAD interaction. Bioorganic & Medicinal Chemistry Letters (2006), 16(17), 4657-4660.

CAIndexNames:

Urea, N-(6-methoxy-2-benzothiazolyl)-N'-phenyl-

SMILES:

O=C(NC1=CC=CC=C1)NC2=NC3=CC=C(OC)C=C3S2

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

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