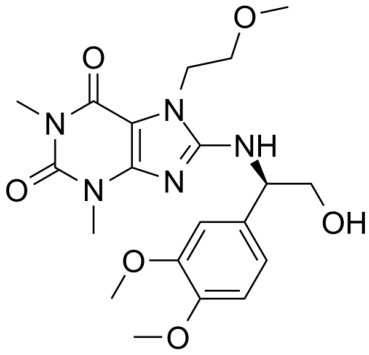
Data Sheet

Product Name:	SDZ-MKS 492
Cat. No.:	CS-0018160
CAS No.:	114606-56-3
Molecular Formula:	$C_{20}H_{27}N_5O_6$
Molecular Weight:	433.46
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Solubility:	DMSO : 250 mg/mL (576.75 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

SDZ-MKS 492 (MKS 492) is a selective inhibitor of cyclic GMP-inhibited **phosphodiesterase (type III PDE)**. SDZ-MKS 492 inhibits antigen- or platelet activating factor (PAF)-induced bronchoconstriction and allergic reactions in guinea pigs and rats[1]. IC50 & Target: type III phosphodiesterase[1] **In Vitro:** MKS 492 relaxes airway smooth muscle in vitro[2]. **In Vivo:** MKS-492 (3-10 mg/kg; i.v.) inhibits antigen-induced bronchoconstriction in guinea pigs[1].

MKS-492 (1-3 mg/kg; i.v.) inhibits PAF-induced bronchoconstriction and the increase in airway responsiveness to histamine in guinea pigs[1].

MKS-492 (30-100 mg/kg; i.p.) inhibits leukotriene B4 (LTB4)-induced airway eosinophilia in guinea pigs[1].

MKS-492 (10-100 mg/kg; i.p.) inhibits passive cutaneous anaphylaxis and mediator-induced skin reactions in rats[1].

References:

[1]. Nagai H, et al. Effects of MKS-492 on antigen-induced bronchoconstriction and allergic reaction in guinea pigs and rats. Jpn J Pharmacol. 1993 Dec;63(4):405-13.

[2]. Morley J, et, al. SDZ MKS 492. Agents Actions Suppl. 1991;34:403-10.

CAIndexNames:

1H-Purine-2,6-dione, 8-[[(1R)-1-(3,4-dimethoxyphenyl)-2-hydroxyethyl]amino]-3,7-dihydro-7-(2-methoxyethyl)-1,3-dimethyl-

SMILES:

O=C(N1C)N(C)C2=C(N(CCOC)C(N[C@H](C3=CC=C(OC)C(OC)=C3)CO)=N2)C1=O

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

Tel: 610-426-3128 Fax: 888-484-5008 E-mail: sales@ChemScene.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA