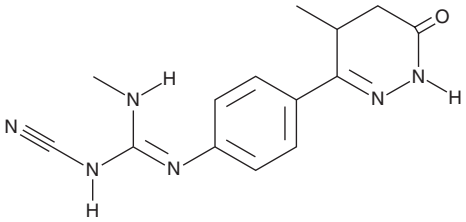
PRODUCT INFORMATION

Siguazodan

Item No. 46199

CAS Registry No.:	115344-47-3
Formal Name:	N-cyano-N-methyl-N′-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]-guanidine
Synonyms:	SKF 94836
MF:	$C_{14}H_{16}N_6O$
FW:	284.3
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Siguazodan is supplied as a solid. A stock solution may be made by dissolving the siguazodan in the solvent of choice, which should be purged with an inert gas. Siguazodan is sparingly soluble (1-10 mg/ml) in DMSO.

Description

Siguazodan is a phosphodiesterase 3 (PDE3) inhibitor (IC_{50} = 0.84 µM for the human platelet enzyme).[1] It inhibits U-46619-, ADP-, or collagen-induced platelet aggregation in isolated human platelet-rich plasma (IC_{50}s = 1.8, 4, and 6.9 µM, respectively). Siguazodan (30 µM) induces relaxation and increases PKA activity in methacholine- or histamine-precontracted dog trachealis strips.[2] It also potentiates isoproterenol- or sodium nitroprusside-induced relaxation in dog trachealis strips. Siguazodan has positive inotropic and vasodilator activity with minimal effects on blood pressure and heart rate in anesthetized cats and dogs.[3]

References

1. Patnaik, D., Pao, P.-C., Zhao, W.-N., *et al.* Exifone is a potent HDAC1 activator with neuroprotective activity in human neuronal models of neurodegeneration. *ACS Chem. Neurosci.* **12(2),** 271-284 (2021).
2. Torphy, T.J., Burman, M., Huang, L.B.F., *et al.* Inhibition of the low k_m cyclic AMP phosphodiesterase in intact canine trachealis by SK&F 94836: Mechanical and biochemical responses. *J. Pharmacol Exp. Ther.* **246(3),** 843-850 (1988).
3. Gristwood, R.W., Comer, M.B., Eden, R.J., *et al. In vivo* pharmacological studies with SK&F 94836, a potent inotrope/vasodilator with a sustained duration of action. *Br. J. Pharmacol.* **93(4),** 893-901 (1988).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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