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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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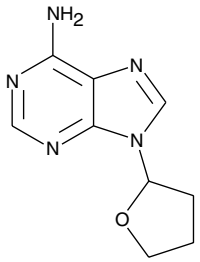
Product Information

SQ 22,536

Item No. 13339

CAS Registry No.:	17318-31-9
Formal Name:	9-(tetrahydro-2-furanyl)-9H-purin-6-amine
Synonym:	NSC 53339
MF:	$C_9H_{11}N_5O$
FW:	205.2
Purity:	≥95%
Stability:	≥2 years at -20°C
Supplied as:	A crystalline solid
UV/Vis.:	λ_{max}: 209, 260 nm



Laboratory Procedures

For long term storage, we suggest that SQ 22,536 be stored as supplied at -20°C. It should be stable for at least two years.

SQ 22,536 is supplied as a crystalline solid. A stock solution may be made by dissolving the SQ 22,536 in the solvent of choice. SQ 22,536 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of SQ 22,536 in ethanol is approximately 3 mg/ml and approximately 30 mg/ml in DMF and DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of SQ 22,536 can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of SQ 22,536 in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

SQ 22,536 is an inhibitor of adenylyl cyclase with an IC_{50} value of 13 µM for inhibition of prostaglandin E_1-stimulated increase in cAMP in intact platelets.[1] It has been used to evaluate adenylyl cyclase activity during iloprost-induced vasorelaxation of isolated pulmonary veins or aorta in several research paradigms, inhibiting cAMP elevation at concentrations of 100-300 µM without effecting relaxation.[2,3]

References

1. Haslam, R.J., Davidson, M.M.L., and Desjardins, J.V. Inhibition of adenylate cyclase by adenosine analogues in preparations of broken and intact human platelets. *Biochem. J.* **176**, 83-95 (1978).
2. Turcato, S. and Clapp, L.H. Effects of the adenylyl cyclase inhibitor SQ22536 on iloprost-induced vasorelaxation and cyclic AMP elevation in isolated guinea-pig aorta. *Br. J. Pharmacol.* **126**, 845-847 (1999).
3. Gao, Y. and Raj, J.U. Effects of SQ 22536, an adenylyl cyclase inhibitor, on isoproterenol-induced cyclic AMP elevation and relaxation in newborn ovine pulmonary veins. *Eur. J. Pharmacol.* **436**, 227-233 (2002).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/13339

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

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