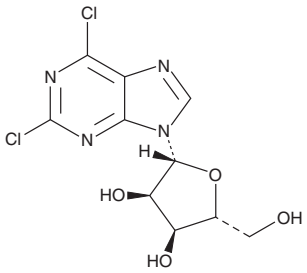
PRODUCT INFORMATION

2,6-Dichloropurine-9-β-D-riboside

Item No. 31405

CAS Registry No.:	13276-52-3
Formal Name:	2,6-dichloro-9-β-D-ribofuranosyl-9H-purine
Synonym:	2,6-Dichloropurine riboside
MF:	$C_{10}H_{10}Cl_2N_4O_4$
FW:	321.1
Purity:	≥98%
UV/Vis.:	λ_{max}: 274 nm
Supplied as:	A crystalline 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

2,6-Dichloropurine-9-β-D-riboside is supplied as a crystalline solid. A stock solution may be made by dissolving the 2,6-dichloropurine-9-β-D-riboside in the solvent of choice, which should be purged with an inert gas. 2,6-Dichloropurine-9-β-D-riboside is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of 2,6-dichloropurine-9-β-D-riboside in these solvents is approximately 30 mg/ml.

2,6-Dichloropurine-9-β-D-riboside is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 2,6-dichloropurine-9-β-D-riboside should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. 2,6-Dichloropurine-9-β-D-riboside has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

2,6-Dichloropurine-9-β-D-riboside is a building block.[1,2] It has been used in the synthesis of photoaffinity probes for nucleotide binding sites in proteins.

References

1. Wower, J., Hixson, S.S., Sylvers, L.A., *et al.* Synthesis of 2,6-diazido-9-(β-D-ribofuranosyl)purine 3',5'-bisphosphate: Incorporation into transfer RNA and photochemical labeling of *Escherichia coli* ribosomes. *Bioconjug. Chem.* **5(2)**, 158-161 (1994).
2. Seiter, M.S., Bauer, M.P., Bogel, P.D., *et al.* Synthesis of novel spin-labeled photoaffinity derivatives of NAD^+ and ATP and their characterization as coenzymes and substrates of several enzymes. *Synthesis* **2**, 269-273 (1996).

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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