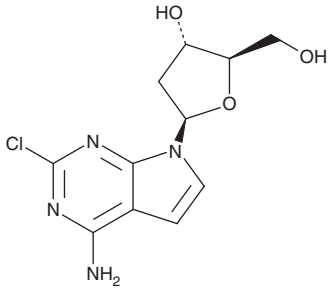
PRODUCT INFORMATION

2-Chloro-7-(2-deoxy-β-D-*erythro*-pentofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine

Item No. 46236



CAS Registry No.:	91741-81-0
MF:	$C_{11}H_{13}ClN_4O_3$
FW:	284.7
Purity:	≥95%
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

2-Chloro-7-(2-deoxy-β-D-*erythro*-pentofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine is supplied as a solid. A stock solution may be made by dissolving the 2-chloro-7-(2-deoxy-β-D-*erythro*-pentofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine in the solvent of choice, which should be purged with an inert gas. 2-Chloro-7-(2-deoxy-β-D-*erythro*-pentofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in ethanol.

Description

2-Chloro-7-(2-deoxy-β-D-*erythro*-pentofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine is a synthetic intermediate and 2-chloro-2'-deoxyadenosine derivative.[1,2] It has been used as an intermediate in the synthesis of the nucleoside reverse transcriptase inhibitor (NRTI) alimatravir.[1] 2-Chloro-7-(2-deoxy-β-D-*erythro*-pentofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine is not cytotoxic to various leukemia cell lines (IC_{50}s = >100 µg/ml).[2]

References

1. Girijavallabhan, V.M., Olsen, D.B., Zhang, Z., *et al.* 4'-Substitued nucleoside reverse transcriptase inhibitors. *Merck Sharp & Dohme Corp.* **WO 2015/143712 A1** (2015).
2. Kazimierczuk, Z., Vilpo, J.A., and Seela, F. Base-modified nucleosides related to 2-chloro-2'-deoxyadenosine. *Helv. Chim. Acta* **75**, 2289-2297 (1992).

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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