

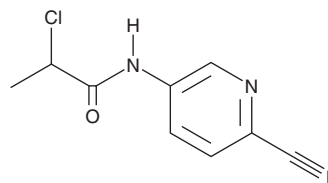
PRODUCT INFORMATION



P-2281

Item No. 46503

CAS Registry No.: 1112994-35-0
Formal Name: 2-chloro-N-(6-cyano-3-pyridinyl)-propanamide
MF: C₉H₈ClN₃O
FW: 209.6
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

P-2281 is supplied as a solid. A stock solution may be made by dissolving the P-2281 in the solvent of choice, which should be purged with an inert gas. P-2281 is sparingly soluble (1-10 mg/ml) in ethanol and DMSO.

Description

P-2281 is an mTOR inhibitor.¹ It inhibits serum-induced phosphorylation of p70 ribosomal S6 kinase 1 (p70S6K1) in serum-starved HCT116 colon cancer cells at 30 μM and serum-induced phosphorylation of 4E-BP1 in serum-starved H460 non-small cell lung cancer (NSCLC) cells at 3 or 10 μM. P-2281 (30 μM) reduces concanavalin A-induced IFN-γ production but not LPS-induced TNF-α production in isolated human peripheral blood mononuclear cells (PBMCs). It decreases disease severity in a mouse model of colitis induced by dextran sulfate sodium (DSS) at 15 mg/kg.

Reference

1. Bhonde, M.R., Gupte, R.D., Dadarkar, S.D., *et al.* A novel mTOR inhibitor is efficacious in a murine model of colitis. *Am. J. Physiol. Gastrointest. Liver Physiol.* **295**(6), G1237-G1245 (2008).

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.

WARRANTY AND LIMITATION OF REMEDY

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