

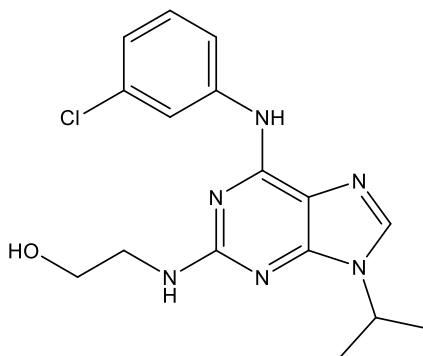
Catalog # 10-4681

NG52

CAS# 212779-48-1

2-[[6-(3-Chloroanilino)-9-propan-2-ylpurin-2-yl]amino]ethanol; 2-(2-Hydroxyethylamino)-6-(3-chloroanilino)-9-isopropylpurine

Lot # FBS2212



NG52 is an inhibitor of Cdc2-cyclin B ($IC_{50} = 340$ nM) as well as Cdc28p ($IC_{50} = 7$ μ M) and Pho85p ($IC_{50} = 2$ μ M).¹ It inhibited phosphoglycerate kinase 1 ($IC_{50} = 2.5$ μ M) and inhibited the proliferation of glioma U87 and U251 cell lines via reversal of the Warburg effect.² NG52 inhibited the proliferation, increased apoptosis, and reduced the migration and invasive ability of OVCAR3 and ES-2 ovarian cancer cell lines via suppression of glycolytic capability.³

- 1) Gray *et al.* (1998), *Exploiting Chemical Libraries, Structure, and Genomics in the Search for Kinase Inhibitors*; Science, **281** 533
- 2) Wang *et al.* (2021), *Pharmacologically inhibiting phosphoglycerate kinase 1 for glioma with NG52*; Acta Pharmacol. Sin., **42** 633
- 3) Gou *et al.* (2021), *PGK1 Is a Key Target for Anti-Glycolytic Therapy of Ovarian Cancer: Based on the Comprehensive Analysis of Glycolysis-Related Genes*; Front. Oncol., **11** 682461

PHYSICAL DATA

Molecular Weight:	346.82
Molecular Formula:	C ₁₆ H ₁₉ ClN ₆ O
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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