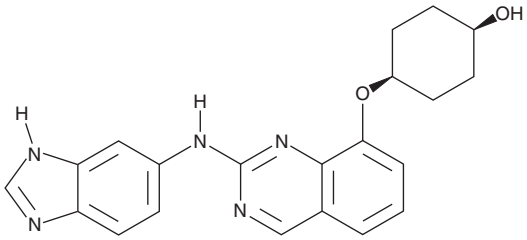
PRODUCT INFORMATION

NCB-0846

Item No. 33268

CAS Registry No.:	1792999-26-8
Formal Name:	*cis*-4-[[2-(1H-benzimidazol-6-ylamino)-8-quinazolinyl]oxy]-cyclohexanol
MF:	$C_{21}H_{21}N_5O_2$
FW:	375.4
Purity:	≥90%
UV/Vis.:	λ_{max}: 222, 246, 293, 311 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

NCB-0846 is supplied as a crystalline solid. A stock solution may be made by dissolving the NCB-0846 in the solvent of choice, which should be purged with an inert gas. NCB-0846 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of NCB-0846 in these solvents is approximately 5 and 1 mg/ml, respectively.

Description

NPC-0846 is an inhibitor of TRAF2- and NCK-interacting kinase (TNIK; IC_{50} = 21 nM).[1] It is selective for TNIK over a panel of 46 kinases but does inhibit FLT3, JAK3, PDGFRα, TrkA, Cdk2/CycA2, and HGK by greater than 80% at 100 nM. NPC-0845 (3 µM) inhibits phosphorylation of transcription factor 4 (TCF4) and autophosphorylation of TNIK in cell-based assays. It inhibits the growth and colony formation of HCT116 colon cancer cells in two-dimensional growth and soft-agar assays, respectively, as well as reduces tumor growth in an HCT116 mouse xenograft model. NPC-0846 (50 and 100 mg/kg) also reduces tumor growth in patient-derived xenograft (PDX) mouse models of colon cancer.

Reference

1. Masuda, M., Uno, Y., Ohbayashi, N., *et al.* TNIK inhibition abrogates colorectal cancer stemness. *Nat. Commun.* **7**, 12586 (2016).

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