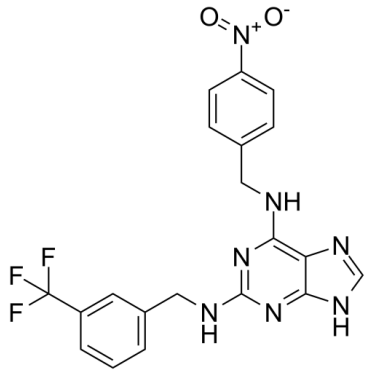
Data Sheet

Product Name:	TNP
Cat. No.:	CS-0032922
CAS No.:	519178-28-0
Molecular Formula:	C20H16F3N7O2
Molecular Weight:	443.38
Target:	Others
Pathway:	Others
Solubility:	DMSO : ≥ 125 mg/mL (281.93 mM); H2O : < 0.1 mg/mL (insoluble)



BIOLOGICAL ACTIVITY:

TNP is a cell-permeable inhibitor of **IP6K1** and **IP3K**, with **IC_{50}** values of 0.55 μM and 10.2 μM for IP3K, respectively. TNP binds to the ATP-binding sites of both enzymes[1]. IC50 & Target: IC50: 0.55 μM (IP6K1), 10.2 μM (IP3K)[1].

References:

[1]. Chang YT, et al. Purine-based inhibitors of inositol-1,4,5-trisphosphate-3-kinase. Chembiochem. 2002 Sep 2;3(9):897-901.

CAIndexNames:

9H-Purine-2,6-diamine, N6-[(4-nitrophenyl)methyl]-N2-[[3-(trifluoromethyl)phenyl]methyl]-

SMILES:

FC(C1=CC(CNC2=NC(NCC3=CC=C([N+]([O-])=O)C=C3)=C4N=CNC4=N2)=CC=C1)(F)F

Caution: Product has not been fully validated for medical applications. For research use only.

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