



Product Information

PDE inhibitor, TPN171, Purity $\geq 98\%$

Cat. No.: X24-09-YM025

Size: 5 mg; 10 mg; 20 mg; 50 mg

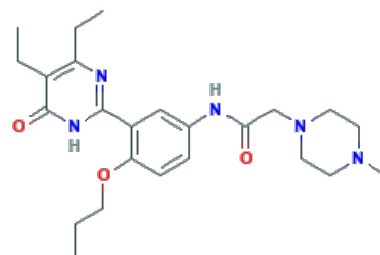
CAS Number: 1229018-87-4

Compound CID: 136197286

Synonym: 1229018-87-4; TPN171; TPN-171; TPN 171; *N*

-[3-(4,5-Diethyl-6-oxo-1*H*

-pyrimidin-2-yl)-4-propoxyphenyl]-2-(4-methylpiperazin-1-yl)acetamide; PDE inhibitor



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	TPN171 is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting PDE. The molecular weight of the compound is 441.57, and its molecular formula is $C_{24}H_{35}N_5O_3$. It targets the PDE5.
Molecular Weight	441.57
Molecular Formula	$C_{24}H_{35}N_5O_3$
Targets	PDE5
IUPAC Name	<i>N</i> -[3-(4,5-Diethyl-6-oxo-1 <i>H</i> -pyrimidin-2-yl)-4-propoxyphenyl]-2-(4-methylpiperazin-1-yl)acetamide
InChI	InChI=1S/C24H35N5O3/c1-5-14-32-21-9-8-17(25-22(30)16-29-12-10-28(4)11-13-29)15-19(21)23-26-20(7-3)18(6-2)24(31)27-23/h8-9,15H,5-7,10-14,16H2,1-4H3,(H,25,30)(H,26,27,31)
InChI Key	PIOIVHHIGWTEJQ-UHFFFAOYSA-N
Canonical SMILES	<chem>CCCOC1=C(C=C(C=C1)NC(=O)CN2CCN(CC2)C)C3=NC(=C(C(=O)N3)CC)CC</chem>
Isomeric SMILES	<chem>CC1=C(N=C2C=C(C=CC2=N1)F)C3=NN4C(=C3)N=C(C=C4NCC(C)(C)O)N5CC[C@H](C5)F</chem>
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	TPN171 can be studied extensively for its potential therapeutic applications in the treatment of neurological and psychiatric disorders, including schizophrenia and cognitive impairments.



Storage

Store at -20°C, and keep desiccated.
