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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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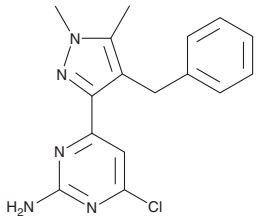
PRODUCT INFORMATION

TDI-10229

Item No. 37674

CAS Registry No.:	2810887-45-5
Formal Name:	4-chloro-6-[1,5-dimethyl-4-(phenylmethyl)-1H-pyrazol-3-yl]-2-pyrimidinamine
MF:	$C_{16}H_{16}ClN_5$
FW:	313.8
Purity:	≥98%
UV/Vis.:	λ_{max}: 213, 215 nm
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

TDI-10229 is supplied as a solid. A stock solution may be made by dissolving the solid in the solvent of choice, which should be purged with an inert gas. TDI-10229 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of TDI-10229 in these solvents is approximately 1 and 5 mg/ml, respectively.

Description

TDI-10229 is an inhibitor of soluble adenylyl cyclase (sAC; IC_{50} = 0.2 µM for the human enzyme in a cell-free assay).[1] It is selective for sAC over the transmembrane ACs AC1-3, -5, -8, and -9 at 10 µM. TDI-10229 inhibits cAMP accumulation induced by the phosphodiesterase (PDE) inhibitor IBMX (Item No. 13347) in rodent sAC-expressing HEK293 cells (IC_{50} = 0.1 µM). It also inhibits capacitation-induced cAMP accumulation and protein kinase A (PKA) activation in isolated mouse and human sperm when used at a concentration of 5 µM. TDI-10229 (5 and 50 µM) prevents the acrosome reaction and fertilization of mouse sperm with mouse oocytes *in vitro*.

Reference

1. Balbach, M., Ghanem, L., Rossetti, T., *et al*. Soluble adenylyl cyclase inhibition prevents human sperm functions essential for fertilization. *Mol. Hum. Reprod.* **27(9)**, gaab054 (2021).

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