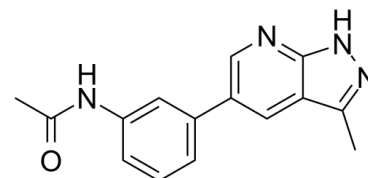


Data Sheet

Product Name:	MRT00033659
Cat. No.:	CS-0068302
CAS No.:	1401731-54-1
Molecular Formula:	C ₁₅ H ₁₄ N ₄ O
Molecular Weight:	266.30
Target:	Casein Kinase; Checkpoint Kinase (Chk); MDM-2/p53
Pathway:	Apoptosis; Cell Cycle/DNA Damage; Stem Cell/Wnt
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

MRT00033659 is a potent broad-spectrum kinase inhibitor of **CK1** (**IC₅₀**=0.9 μM for CK1δ) and **CHK1** (**IC₅₀**=0.23 μM).

MRT00033659, a pyrazolo-pyridine analogue, induces **p53** pathway activation and E2F-1 destabilisation^[1]. **In Vitro**: MRT00033659 (5-40 μM; 48 hours) is sufficient to significantly reduce cell number of 5 μM^[1].

MRT00033659 (1-80 μM; 48 hours) induces substantial cell death from 5 μM^[1].

MRT00033659 (0.2-80 μM; 48 hours) induces a robust and sustained stabilisation of p53, MDM2 and p21 proteins, as well as E2F-1 destabilisation from 0.2 μM to 5 μM^[1].

MRT00033659 does not inhibit p38α MAPK^[1].

References:

[1]. Huart AS, et al. A Casein kinase 1/Checkpoint kinase 1 pyrazolo-pyridine protein kinase inhibitor as novel activator of the p53 pathway. *Bioorg Med Chem Lett.* 2013 Oct 15;23(20):5578-85.

CAIndexNames:

Acetamide, N-[3-(3-methyl-1H-pyrazolo[3,4-b]pyridin-5-yl)phenyl]-

SMILES:

CC1=NNC2=NC=C(C=C21)C3=CC=CC(NC(C)=O)=C3

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

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