

PRODUCT: Chk2 Inhibitor

CATALOG #:	1702-1
AMOUNT:	1 mg
LOT #:	_____
CHEMICAL NAME:	2-(4-(4-Chlorophenoxy)phenyl)-1H-benzimidazole-5-carboxamide
MOLECULAR FORMULA:	C ₂₀ H ₁₄ ClN ₃ O ₂
MOLECULAR WEIGHT:	363.8
PURITY:	≥98% by HPLC
APPEARANCE:	Pale yellow solid
SOLUBILITY:	Soluble in DMSO (10 mg/ml)
STORAGE CONDITIONS:	-20°C. Protect from light.
DESCRIPTION:	A cell-permeable, potent, and ATP-competitive inhibitor of Chk2 (checkpoint kinase 2; IC ₅₀ = 15 nM; K _i = 37 nM). Displays ~1,000-fold greater selectivity for Chk2 compared to Cdk1/cyclin B and CK1 (IC ₅₀ = 12 μM and 17 μM, respectively) and only weakly affects the activities of a panel of 31 kinases (< 25% inhibition at 10 μM), including Chk1. Shown to rescue both peripheral CD4 ⁺ and CD8 ⁺ T-cells from γ-irradiation-induced apoptosis with an EC ₅₀ of 3 μM and 7.6 μM, respectively.
REFERENCE:	Arienti, K. L., et al. 2005. <i>J. Med. Chem.</i> 48 , 1873.
USAGE:	<i>For research use only. Not to be used in humans.</i>

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- Caspase Assay Kits & Reagents
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- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

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- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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- Bioluminescence Cytotoxicity Assay Kit
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