

## Chk2 Inhibitor

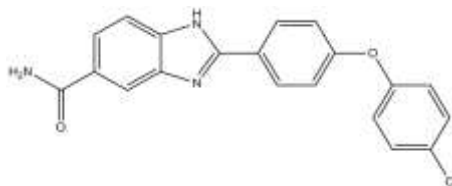
**CHEMICAL NAME:** 2-(4-(4-Chlorophenoxy)phenyl)-1H-benzimidazole-5-carboxamide

**CATALOG #:** 1702-1

**AMOUNT:** 1 mg

**LOT #:** \_\_\_\_\_

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>20</sub>H<sub>14</sub>ClN<sub>3</sub>O<sub>2</sub>

**MOLECULAR WEIGHT:** 363.8

**CAS NUMBER:** 516480-79-8

**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<sub>50</sub> = 15 nM; K<sub>i</sub> = 37 nM). Displays ~1,000-fold greater selectivity for Chk2 compared to Cdk1/cyclin B and CK1 (IC<sub>50</sub> = 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<sup>+</sup> and CD8<sup>+</sup> T-cells from γ-irradiation-induced apoptosis with an EC<sub>50</sub> of 3 μM and 7.6 μM, respectively.

**REFERENCE:** Arienti, K. L., et al. 2005. *J. Med. Chem.* **48**, 1873.

### RELATED PRODUCTS:

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