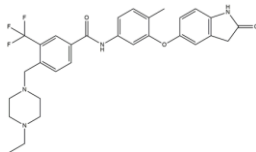


**PRODUCT: DDR1-IN-1****ALTERNATE NAMES:** DDR1-IN 1, DDR1-IN1, DDR-IN-1**CATALOG #:** B1331-5, -25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>30</sub>H<sub>31</sub>F<sub>3</sub>N<sub>4</sub>O<sub>3</sub>**MOLECULAR WEIGHT:** 552.59**CAS NUMBER:** 1449685-96-4**APPEARANCE:** White to off-white solid powder**SOLUBILITY:** Soluble in DMSO ≥ 41 mg/ml**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20 °C. Protect from air and light.

**DESCRIPTION:** DDR1-IN-1 is a potent and selective DDR1 inhibitor with IC<sub>50</sub> of 105 nM, about 3-fold selectivity over DDR2. DDR1-IN-1 binds to DDR1 in the 'DFG-out' conformation and inhibits DDR1 autophosphorylation in cells at submicromolar concentrations with good selectivity as assessed against a panel of 451 kinases measured. DDR1-IN-1 provides a useful pharmacological probe for DDR1-dependent signal transduction.

**REFERENCES:**

1. Canning P et al. Structural mechanisms determining inhibition of the collagen receptor DDR1 by selective and multi-targeted type II kinase inhibitors. J Mol Biol. 2014 Jun 26;426(13):2457-70.
2. Kim HG et al. Discovery of a potent and selective DDR1 receptor tyrosine kinase inhibitor. ACS Chem Biol. 2013 Oct 18;8(10):2145-50.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**USAGE:** *FOR RESEARCH USE ONLY! Not to be used in humans*