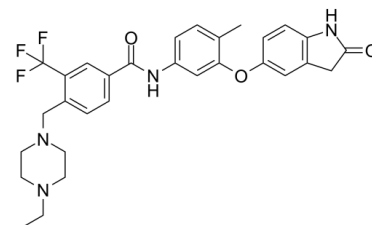


## Data Sheet

<b>Product Name:</b>	DDR1-IN-1
<b>Cat. No.:</b>	CS-2808
<b>CAS No.:</b>	1449685-96-4
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>31</sub> F <sub>3</sub> N <sub>4</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	552.59
<b>Target:</b>	Discoidin Domain Receptor
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK
<b>Solubility:</b>	DMSO : 100 mg/mL (180.97 mM; Need ultrasonic); H <sub>2</sub> O : < 0.1 mg/mL (insoluble)



### BIOLOGICAL ACTIVITY:

DDR1-IN-1 is a potent and selective **DDR1 receptor tyrosine kinase** inhibitor with an **IC<sub>50</sub>** of 105 nM; 4-fold less potent for DDR2 (IC<sub>50</sub> = 413 nM)<sup>[1]</sup>. IC<sub>50</sub> & Target: IC<sub>50</sub>: 105 nM (DDR1)<sup>[1]</sup>. **In Vitro**: DDR1-IN-1 effectively blocks collagen-induced DDR1 pY513 autophosphorylation in U2OS cells (EC<sub>50</sub> = 86.76 nM) with excellent selectivity over a panel of >380 kinases. DDR1-IN-1 inhibits DDR2-mediated MT1-MMP activation in human rheumatoid synovial fibroblasts (RASf) upon collagen stimulation (IC<sub>50</sub> < 2.5 μM) and enhances PI3K/mTOR inhibitor GSK2126458 antiproliferation efficacy in SNU-1040 colorectal cancer culture<sup>[1]</sup>.

### References:

[1]. 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.

### CAIndexNames:

Benzamide, N-[3-[(2,3-dihydro-2-oxo-1H-indol-5-yl)oxy]-4-methylphenyl]-4-[(4-ethyl-1-piperazinyl)methyl]-3-(trifluoromethyl)-

### SMILES:

O=C(NC1=CC=C(C(C)C(OC2=CC3=C(NC(C3)=O)C=C2)=C1)C4=CC=C(CN5CCN(CC)CC5)C(C(F)(F)F)=C4

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

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