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产品名称：HMN-154
产品别名：HMN-154

生物活性：

Description	HMN-154 is a novel benzenesulfonamide anticancer compound; inhibits KB and colon38 cells with IC_{50} values of 0.0026 and 0.003 μg/mL, respectively.
IC_{50} & Target	IC50: 0.0026 μg/mL (KB cells), 0.003 μg/mL (colon38 cells)[1]
In Vitro	HMN-154 interacts with NF-YB and thereby interrupts the binding of the NF-Y heterotrimer to DNA. NF-YB and thymosin β-10 are specific cellular binding proteins of HMN-154 and that this shared region is necessary for the binding to HMN-154. HMN-154 inhibits DNA binding of NF-Y to the human major histocompatibility complex class II human leukocyte antigen DRA Y-box sequence in a dose-dependent manner. HMN-154 shows very strong cytotoxicity against KB and colon38 cells with an IC_{50} value of 0.0026 and 0.003 μg/mL, respectively. HMN-154/BSA binds recombinant NF-YB or thymosin β-10 and the binding is inhibited by the addition of HMN-154 as the competitor. The binding between HMN-154 and NF-YB is specific and depends on its cytotoxicity[1].
Solvent&Solubility	***In Vitro:*** **DMSO : ≥ 15 mg/mL (40.94 mM)** * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7290 mL	13.6452 mL	27.2903 mL
	5 mM	0.5458 mL	2.7290 mL	5.4581 mL
	10 mM	0.2729 mL	1.3645 mL	2.7290 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

References	[1]. Tanaka H, et al. Isolation of cDNAs encoding cellular drug-binding proteins using a novel expression cloning procedure: drug-western. Mol Pharmacol. 1999 Feb;55(2):356-63.

实验参考：

Cell Assay	Cells are seeded into a 96-well microplate at a cell density of 10000/well. Drug is added on the next day, and the plate then is incubated for 72 h at 37°C. The growth inhibitory concentration is measured by 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide assay[1].
References	[1]. Tanaka H, et al. Isolation of cDNAs encoding cellular drug-binding proteins using a novel expression cloning procedure: drug-western. Mol Pharmacol. 1999 Feb;55(2):356-63.