产品名称：TP-0903
产品别名：Dubermatinib

生物活性：

Description	Dubermatinib (TP-0903) is a potent and selective **Axl** receptor tyrosine kinase inhibitor with an **IC_{50}** value of 27 nM.
IC_{50} & Target	IC50: 27nM (Axl)[1]
In Vitro	Dubermatinib (TP-0903) displays a potent activity against AXL with an IC50 of 0.027 μM. Dubermatinib (TP-0903) shows extremely potent activity in cell viability assays with an IC50 of 6 nM against the pancreatic cancer cell line PSN-1. Dubermatinib (TP-0903) is evaluated for its ability to block GAS6-mediated activation of AXL in pancreatic cancer cells. PSN-1 cells are serum-starved and then stimulated with GAS6 in the presence of various concentrations of TP-0903[1].

Solvent&Solubility

In Vitro:

DMSO： ≥ 30 mg/mL (58.13 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9378 mL	9.6888 mL	19.3776 mL
	5 mM	0.3876 mL	1.9378 mL	3.8755 mL
	10 mM	0.1938 mL	0.9689 mL	1.9378 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]. Mollard A, et al. Design, Synthesis and Biological Evaluation of a Series of Novel Axl Kinase Inhibitors. ACS Med Chem Lett. 2011 Dec 8;2(12):907-912.

实验参考：

Cell Assay	For cell proliferation assays, 45 μL containing 1000 cells per well are seeded into solid white 384-well plates in appropriate media. The following day, Dubermatinib (TP-0903) is diluted in serum free growth media to 10x desired concentrations and 5 μL is added to each well. Combined compound and cells are incubated for 96 hours. Following incubation, 40 μL of ATP-Lite solution is added to each well, incubated for an additional 10 minutes at room temperature and luminescence is measured on an microplate reader[1].
References	[1]. Mollard A, et al. Design, Synthesis and Biological Evaluation of a Series of Novel Axl Kinase Inhibitors. ACS Med Chem Lett. 2011 Dec 8;2(12):907-912.