上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话：021-61312973　　传真：021-55068248
网址：www.shyuanye.com
邮箱：shyysw@sina.com

产品名称：SD-06
产品别名：SD 0006

生物活性：

Description	SD 0006 (SD-06) is an orally active, selective, ATP-competitive and potent diaryl pyrazole inhibitor of p38α MAP kinase, with an IC50 of 110 nM for p38α[1][2].
IC_{50} & Target	IC50: 110 nM (p38 MAPK)[1].
In Vitro	SD 0006 clearly inhibits p38α as shown by the dose-dependent inhibition of phosphorylation of its endogenous Hsp27 substrate[1].
In Vivo	SD 0006 (0-30 mg/kg) may be an effective alternative to steroids and biologics for RA therapy[1]. SD0006 (3.75, 7.5 and 15 mg/kg; p.o.; b.i.d.) is highly effective in attenuating SCW-induced inflammation as shown by the dose-dependent inhibition of paw swelling[1].

Animal Model:	8- to 12-week-old DBA/1 mice[1].
Dosage:	3.75, 7.5 and 15 mg/kg.
Administration:	Orally twice daily.
Result:	Inhibited the transcription of several inflammatory mediators to prevent joint swelling and bone destruction and to preserve bone density.

Solvent&Solubility

In Vitro:

DMSO : ≥ 29 mg/mL (72.89 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5134 mL	12.5672 mL	25.1345 mL
	5 mM	0.5027 mL	2.5134 mL	5.0269 mL
	10 mM	0.2513 mL	1.2567 mL	2.5134 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]. Burnette BL, et al. SD0006: a potent, selective and orally available inhibitor of p38 kinase. Pharmacology. 2009;84(1):42-60.

[2]. Walker JK, et al. Identification of SD-0006, a potent diaryl pyrazole inhibitor of p38 MAP kinase. Bioorg Med Chem Lett. 2010 Apr 15;20(8):2634-8.