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产品名称: **Ribocil**
产品别名: **Ribocil**

| 生物活性: | | | | | |
|--------------------|--|--|-----------|------------|------------|
| Description | Ribocil is a highly selective chemical modulator of bacterial riboflavin riboswitches. Ribocil strongly inhibits GFP expression, achieving a 50% effective concentration (EC50) of 0.3 μM. Target: in vitro: Ribocil is a highly specific bioactive synthetic mimic of FMN, which competes with the natural ligand to inhibit FMN riboswitch-mediated expression of ribB and inhibits bacterial growth. Ribocil-B demonstrates superior microbiological activity as compared to Ribocil-A (minimum inhibitory concentration (MIC) = 1 μ g/ml versus MIC ≥ 64 μ g/ml), inhibition of riboflavin synthesis (IC50 = 0.13 μ M versus IC50 > 26 μ M), and binding affinity to the E. coli FMN aptamer (Kd = 6.6 nM versus Kd ≥ 10,000 nM).[1] | | | | |
| | <p><i>In Vitro:</i></p> <p>DMSO : ≥ 24.8 mg/mL (64.84 mM)</p> <p>* "≥" means soluble, but saturation unknown.</p> | | | | |
| Solvent&Solubility | Preparing Stock Solutions | <div><div>SolventMassConcentration</div></div> | 1 mg | 5 mg | 10 mg |
| | | 1 mM | 2.6145 mL | 13.0726 mL | 26.1452 mL |
| | | 5 mM | 0.5229 mL | 2.6145 mL | 5.2290 mL |
| | | 10 mM | 0.2615 mL | 1.3073 mL | 2.6145 mL |
| | <p>*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。</p> <p>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。</p> | | | | |
| References | [1]. Howe JA, et al. Selective small-molecule inhibition of an RNA structural element. Nature. 2015 Oct 29;526(7575):672-7. | | | | |