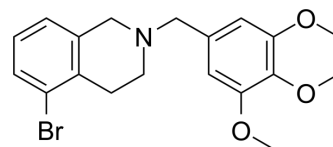


HA-CD44 interaction inhibitor 1

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-149898 | | |
| Molecular Formula: | C ₁₉ H ₂₂ BrNO ₃ | | |
| Molecular Weight: | 392.29 | | |
| Target: | Others | | |
| Pathway: | Others | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

| | | | | | | |
|---|---|----------------------|-------------|-------------|-------------|--------------|
| In Vitro | DMSO : 100 mg/mL (254.91 mM); ultrasonic and warming and heat to 80°C | | | | | |
| | Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
| | | Concentration | | | | |
| | | 1 mM | | 2.5491 mL | 12.7457 mL | 25.4913 mL |
| | | 5 mM | | 0.5098 mL | 2.5491 mL | 5.0983 mL |
| 10 mM | | 0.2549 mL | 1.2746 mL | 2.5491 mL | | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (12.75 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (12.75 mM); Clear solution | | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | Antitumor agent-109 (compound 6) is an inhibitor of hyaluronic acid (HY-B0633A) targeting to CD44, as well as an anti-tumor agent. Hyaluronic acid interacts with differentiation cluster 44 (CD44) and is involved in tumor growth and invasion. Antitumor agent-109 inhibits MDA-MB-231 cells with EC50 value of 0.59 μM ^[1] . |
| IC₅₀ & Target | Hyaluronic acid |

REFERENCES

[1]. Espejo-Román JM, et al. N-aryltetrahydroisoquinoline derivatives as HA-CD44 interaction inhibitors: Design, synthesis, computational studies, and antitumor effect. Eur

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

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