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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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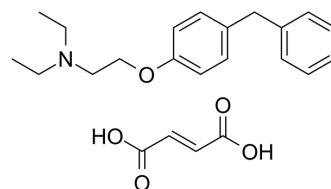
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Tesmilifene fumarate

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-101179 | | |
| CAS No.: | 1185241-83-1 | | |
| Molecular Formula: | C ₂₃ H ₂₉ NO ₅ | | |
| Molecular Weight: | 399.48 | | |
| Target: | Histamine Receptor | | |
| Pathway: | GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling | | |
| 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 : 250 mg/mL (625.81 mM; Need ultrasonic) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 2.5033 mL | 12.5163 mL | 25.0325 mL |
| | | 5 mM | 0.5007 mL | 2.5033 mL | 5.0065 mL |
| 10 mM | | 0.2503 mL | 1.2516 mL | 2.5033 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | <ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.21 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.21 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.21 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | |
|--------------------|---|
| Description | Tesmilifene fumarate (DPPE fumarate), an H _{1C} receptor antagonist, potentiates a wide range of cytotoxics and even to offer some protection of normal cells ^{[1][2]} . |
| In Vitro | Tesmilifene may modulate the effects of 12(S)HETE in cancer cells, and indirectly, influence the susceptibility of cellular DNA to chemotherapy ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

In Vivo

Tesmilifene (DPPE, 20 mg/kg (s.c.) and 20 µg (icv in 5 µL)) potentiated seizures induced by both convulsants^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

| | |
|-----------------|---|
| Animal Model: | Male BKTO mice (25-45 g) ^[2] . |
| Dosage: | 20 mg/kg (s.c.) and 20 µg (icv in 5 µL). |
| Administration: | S.C. and icv. |
| Result: | Potentiated seizures induced by both convulsants. |

REFERENCES

[1]. Mark Vincent, et al. Tesmilifene may enhance breast cancer chemotherapy by killing a clone of aggressive, multi-drug resistant cells through its action on the p-glycoprotein pump. *Med Hypotheses*. 2006;66(4):715-31.

[2]. G Sturman, et al. Modulation of the intracellular and H3-histamine receptors and chemically-induced seizures in mice *Agents Actions*. 1994 Jun;41 Spec No:C68-9.

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

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