Animal Study:

**Cell Assay:**

Kinase Assay:

The segments (1 cm) of isolated ileum from guinea pigs are suspended in an organ bath containing Tyrode solution (ventilation, 32 °C). The contractile responses to histamine (0.54 μM) are measured with an isotonic transducer. A set concentration of Chlorpheniramine is added in the organ bath 5 minutes before detachment, and counted with a Coulter counter for the determination of cell growth.

**In vitro**

Oral administration of Chlorpheniramine inhibits histamine-induced mortality in guinea pigs with an ED50 of 0.17 mg/kg. Oral administration of Chlorpheniramine (10 mg/kg) significantly inhibits short-duration scratching in BALB/c mice stimulated by ovalbumin active cutaneous anaphylaxis and in ICR male mice, at a dose of 10 mg/kg, the increase in a concentration-dependent manner with IC50 of 128 nM than that of carbachol-induced [Ca2+] increase with an IC50 of 43.9 μM.

**In vivo**

In contrast to that of dexamethasone or tacrolimus, Administration of Chlorpheniramine (20 mg/kg) significantly abolishes the increase in REM sleep in rats induced by immobilization stress due to the blockage of the histaminergic and cholinergic mechanisms generating REM sleep.

**Clinical Trials**

A Phase III study to evaluate the efficacy and safety of a fixed combination of paracetamol, phenylephrine and Chlorpheniramine in symptomatic treatment of common cold and flu-like illness in adults has been completed.

**Features**

1. **Molecular Weight (MW):** 390.86
2. **CAS No.:** 113-92-8
3. **Solubility (25°C):**
   - Powder
   - DMSO
4. **Storage:**
   - 2 weeks, -20°C
   - 4°C in DMSO
   - 6 months, -80°C in DMSO
5. **IC50:** 12 nM
6. **Synonyms:** Piriton
7. **IC50**
   - Histamine H1 receptor
   - Chlorpheniramine Chemical Structure

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