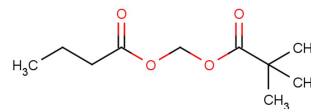


Pivanex

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 122110-53-6 |
| Formula: | C ₁₀ H ₁₈ O ₄ |
| Molecular Weight: | 202.25 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



Biological Description

| | |
|----------------------------|---|
| Description | Pivanex is a derivative of Butyric acid and is an orally active HDAC inhibitor. Pivanex has antimetastatic and antiangiogenic properties. Pivanex down-regulates bcr-abl protein and increases apoptosis. |
| Targets(IC ₅₀) | HDAC;Bcr-Abl: None |
| In vitro | Pivanex has selective toxicity to acute leukemia and drug-resistant primary leukemia and cancer cell lines. Pivanex (200 µM) causes enhancement in the G2-M phase, moderate enhancement in the S phase, and a slight reduction in G0-G1 of the cell cycle. Pivanex (100-500 µM) shows significant anti-proliferation activity in K562 cells. Pivanex (100-500 µM) also increases apoptosis and caspase activity in K562 cells [1][2]. |
| In vivo | Pivanex treatment also marked delays in the end stage of disease as defined by the onset of body mass loss. Pivanex (200 mg/kg, b.i.d, daily) obviously improves the survival of SMN7 SMA mice [3]. |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 100 mg/mL (494.44 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 4.944 mL | 24.722 mL | 49.444 mL |
| 5 mM | 0.989 mL | 4.944 mL | 9.889 mL |
| 10 mM | 0.494 mL | 2.472 mL | 4.944 mL |
| 50 mM | 0.099 mL | 0.494 mL | 0.989 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Rabizadeh E, et al. Pivanex, a histone deacetylase inhibitor, induces changes in BCR-ABL expression and when combined with STI571, acts synergistically in a chronic myelocytic leukemia cell line. Leuk Res. 2007 Aug;31(8):1115-23. Epub 2007 Jan 30.
2. Batova A, et al. The histone deacetylase inhibitor AN-9 has selective toxicity to acute leukemia and drug-resistant primary leukemia and cancer cell lines. Blood. 2002 Nov 1;100(9):3319-24.
3. Edwards JD, et al. Effect of the Butyrate Prodrug Pivaloyloxymethyl Butyrate (AN9) on a Mouse Model for Spinal Muscular Atrophy. J Neuromuscul Dis. 2016 Nov 29;3(4):511-515.

[Inhibitors](#) · [Natural Compounds](#) · [Compound Libraries](#)

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481