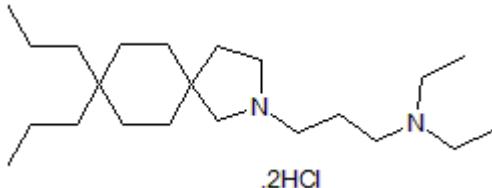


Certificate of Analysis**Product Name:** Atiprimod dihydrochloride**Catalog No.:** 4580**Batch No.:** 1

CAS Number: 130065-61-1

IUPAC Name: *N,N*-Diethyl-8,8-dipropyl-2-azaspiro[4.5]decane-2-propanamine dihydrochloride**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₂₂H₄₄N₂.2HCl.½H₂O**Batch Molecular Weight:** 418.53**Physical Appearance:** White solid**Solubility:** water to 50 mM
DMSO to 10 mM with gentle warming**Storage:** Desiccate at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.18 (Dichloromethane:Methanol:Ammonia soln. [94:5:1])**HPLC:** Shows >98% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 63.14 11.32 6.69

Found 63.29 11.15 7

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

Product Name: Atiprimod dihydrochloride**Catalog No.:** 4580**Batch No.:** 1

CAS Number: 130065-61-1

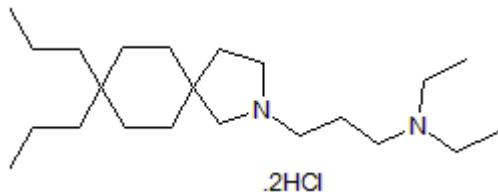
IUPAC Name: *N,N*-Diethyl-8,8-dipropyl-2-azaspiro[4.5]decane-2-propanamine dihydrochloride**Description:**

JAK2 inhibitor ($IC_{50} = 397$ nM). Also inhibits STAT3 and STAT5 phosphorylation. Inhibits cell growth and induces apoptosis in cells expressing the JAK2^{V617F} mutation.

Physical and Chemical Properties:Batch Molecular Formula: $C_{22}H_{44}N_2 \cdot 2HCl \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 418.53

Physical Appearance: White solid

Batch Molecular Structure:**Storage:** Desiccate at RT**Solubility & Usage Info:**

water to 50 mM

DMSO to 10 mM with gentle warming

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Manshouri *et al* (2011) Bone marrow stroma-secreted cytokines protect JAK2(V617F)-mutated cells from the effects of a JAK2 inhibitor. *Cancer Res.* **71** 3831. PMID: 21512135.

Quintás-Cardama *et al* (2011) Preclinical characterization of atiprimod, a novel JAK2 AND JAK3 inhibitor. *Invest.New Drugs* **29** 818. PMID: 20372971.

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