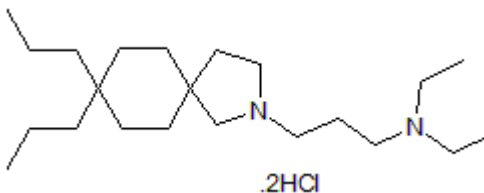


Certificate of Analysis

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: $C_{22}H_{44}N_2 \cdot 2HCl \cdot \frac{1}{2}H_2O$
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 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 (IC₅₀ = 397 nM). Also inhibits STAT3 and STAT5 phosphorylation. Inhibits cell growth and induces apoptosis in cells expressing the JAK2^{V617F} mutation.

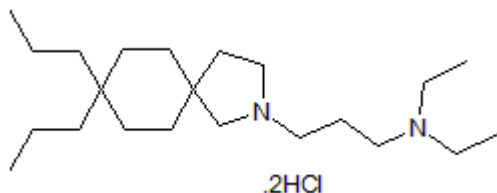
Physical and Chemical Properties:

Batch Molecular Formula: C₂₂H₄₄N₂·2HCl·½H₂O

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:

Manshuri 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.

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

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956