



Certificate of Analysis

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Product Name: ETP 45835 dihydrochloride Catalog No.: 5183 Batch No.: 1

IUPAC Name: 4-[5-(4-Piperidinyl)-1*H*-pyrazol-3-yl]pyridine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{13}H_{16}N_4.2HCl.\nu_4H_2O$

Batch Molecular Weight: 305.71

Physical Appearance: Pale yellow solid
Solubility: water to 100 mM
Storage: Desiccate at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.15$ (20% MeOH in DCM with 0.2% NH3)

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 51.07 6.1 18.33 Found 51.21 6.07 18.39



Product Information

Print Date: Oct 16th 2014

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IUPAC Name: 4-[5-(4-Piperidinyl)-1*H*-pyrazol-3-yl]pyridine dihydrochloride

Description:

Mnk2 and Mnk1 inhibitor (IC_{50} values are 575 and 646 nM respectively). Exhibits selectivity against a panel of 24 protein kinases, including those upstream of Mnk1/2.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{13}H_{16}N_4.2HCI.1/4H_2O$

Batch Molecular Weight: 305.71

Physical Appearance: Pale yellow solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

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:

Oyarzabal et al (2010) Discovery of mitogen-activated protein kinase-interacting kinase 1 inhibitors by a comprehensive fragment-oriented virtual screening approach. J.Med.Chem. 53 6618. PMID: 20722422.

