

Certificate of Analysis

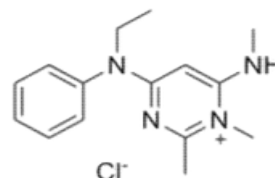


Product Identification

Catalog number HB1152
Compound name ZD7288
Chemical name 4-Ethylphenylamino-1,2-dimethyl-6-methylaminopyrimidinium chloride

Batch number E0438-3-4
Batch molecular formula $C_{15}H_{21}ClN_4 \cdot 0.5H_2O$
Batch molecular weight 301.82

Chemical Structure



Method

QC requirement

QC Result

HPLC	HPLC shows more than 98% purity by RP analysis	Meets specification: >99% by HPLC
NMR	400MHz ¹ H spectrum in D ₂ O confirms structure and shows <1% of any other impurity	Meets specification
Mass spectrum	Electrospray positive analysis shows mass ion corresponding to [M-Cl] ⁺	Meets specification: Mass ion: 257.2
Microanalysis	Elemental analysis is within 0.4 of expected result for each element tested	Meets specification: analysis fits for batch molecular formula
TLC	Analysis using a solvent ratio of 9:1 DCM/MeOH shows a single spot (visualised by UV)	Meets specification: R _f =0.25
Physical appearance	White to off-white solid	Meets specification: White Solid
Solubility	Soluble in water to 100 mM	Meets specification

Biological validation

Produced by Huw Davies

Signature

Passed by Steve Roome

Signature

Date

20-06-16

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.