

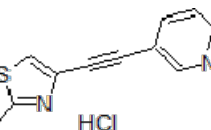
Certificate of Analysis



Product Identification

Catalog number HB0431
Compound name MTEP hydrochloride
Chemical name 3-((2-Methyl-1,3-thiazol-4-yl)ethynyl)pyridine hydrochloride

Batch number E0468-3-1
Batch molecular formula C₁₁H₈N₂S·2HCl·0.5H₂O
Batch molecular weight 282.19



Chemical Structure

Method

QC requirement

QC Result

HPLC	HPLC shows more than 98% purity by RP analysis	Meets specification: >99% by HPLC
NMR	300MHz ¹ H spectrum in DMSO confirms structure and shows <1% of any other impurity	Meets specification
Mass spectrum	Electrospray positive analysis shows mass ion corresponding to [M+H] ⁺	Meets specification: Mass ion: 201.0
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 1:1 EtOAc / hexane + 1% Et ₃ N shows a single spot	Meets specification: R _f =0.20
Physical appearance	White to cream solid	Meets specification: cream Solid
Solubility	Soluble in water to 100 mM	Meets specification

Biological validation

Produced by Huw Davies

Signature

Passed by Steve Roome

Signature

Date

10-10-16

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