Certificate of Analysis

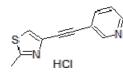
Product Identification

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

Batch number Batch molecular formula Batch molecular weight E0468-3-1 C₁₁H₈N₂S.HCI.0.1H₂O 238.52



Chemical Structure



Method	QC requirement	QC Result
HPLC NMR	HPLC shows more than 98% purity by RP analysis 300MHz ¹ H spectrum in DMSO confirms structure and shows <1% of any other impurity	Meets specification: >99% by HPLC 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_3N 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