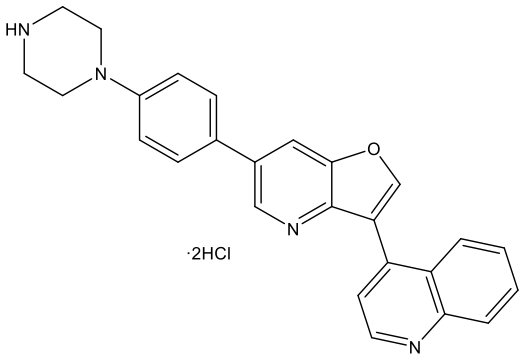
Catalog #10-4746

MU1700 dihydrochloride

CAS# 1360905-04-9 (free base)

6-(4-(Piperazin-1-yl)phenyl)-3-(quinoline-4-yl)furo[3,2-b]pyridine dihydrochloride

Lot # FBA9285



MU1700 is a potent (IC_{50}'s = 13 nM ALK1; 6 nM ALK2) and highly selective (selective against 369 kinases with only ALK6 (41 nM) being inhibited) ALK1/2 inhibitor. Much higher kinome selectivity than the typically used ALK 1/2 inhibitor LDN-193189. MU1700 exhibits favorable pharmacokinetic and bioavailability profiles for *in vivo* use. It showed excellent CNS penetration with brain concentrations exceeding that in plasma.

1) Nemec *et al.* (2024), *Discovery of Two Highly Selective Structurally Orthogonal Chemical Probes for Activin Receptor-like Kinases 1 and 2*; J.Med.Chem. **67** 12632

PHYSICAL DATA

Molecular Weight:	479.41
Molecular Formula:	$C_{26}H_{22}N_4O \cdot 2HCl$
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (5 mg/mL); Water (10 mg/ml)
Physical Description:	Orange solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

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