MU1700

®

MedChemExpress

| Cat. No.: HY-148246 | |
|---|-------|
| Molecular Formula: C ₂₆ H ₂₂ N ₄ O | I N |
| Molecular Weight: 406.48 | |
| Target: TGF-β Receptor | |
| Pathway: TGF-beta/Smad | O O |
| Storage:Please store the product under the recommended conditions in the Certificate oAnalysis. | f N N |

| BIOLOGICAL ACTIV | ІТҮ | | |
|------------------|---|---|--|
| Description | MU1700 is an orally active an membrane permeability and | | $_{\rm 0}{\rm s}$ of 13 nM and 6 nM, respectively. MU1700 shows cell |
| IC₅₀ & Target | ALK2 6 nM (IC ₅₀) | ALK1 13 nM (IC ₅₀) | ALK6 41 nM (IC ₅₀) |
| In Vitro | MU1700 (0-10 µM) inhibits AL | wws cytotoxic effect at above 2.5 μΝ K2 catalysed phosphorylation of S confirmed the accuracy of these me | |
| | Cell Line: | U2OS cells | |
| | Concentration: | 0.1-50 μΜ | |
| | Incubation Time: | 24 h | |
| | Result: | Showed cytotoxic effect above 2 | 2.5 μM concentration significantly. |
| In Vivo | Pharmacokinetic (PK) Profile | in Mice (P.O., 20 mg/kg) ^[1] | |
| | Dose | 20 mg/kg | |
| | Bioavailability | 79 % | |
| | Cl (ml/min/kg) | 30 (IV) | |
| | T _{1/2} | 2.5 h | |
| | C _{max} (PO) | 3697 nM | |

| C _{brain} /C _{plasma} (4h, 100 mg/kg) |
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| MCE has not independently confirmed the |

REFERENCES

[1]. MU1700 Chemical probe for ALK1 and ALK2 protein kinases

Caution: Product has not been fully validated for medical applications. For research use only.

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