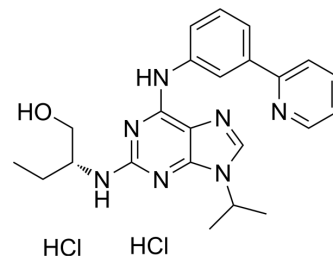


(R)-DRF053 dihydrochloride

| | |
|---------------------------|---|
| Cat. No.: | HY-103383 |
| CAS No.: | 1241675-76-2 |
| Molecular Formula: | C ₂₃ H ₂₉ Cl ₂ N ₇ O |
| Molecular Weight: | 490.43 |
| Target: | CDK; Casein Kinase |
| Pathway: | Cell Cycle/DNA Damage; Stem Cell/Wnt |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | | |
|-------------------------------------|---|---|---------------------------------------|
| Description | (R)-DRF053 dihydrochloride is a potent casein kinases 1 (CK1), CDK1/cyclin B and CDK5/p25 inhibitor with IC ₅₀ s of 14 nM, 220 nM and 80 nM, respectively. (R)-DRF053 dihydrochloride prevents the CK1-dependent production of amyloid-beta in a cell model ^[1] . | | |
| IC₅₀ & Target | CK1 14 nM (IC ₅₀) | CDK1/cyclinB1 220 nM (IC ₅₀) | Cdk5/p25 80 nM (IC ₅₀) |

REFERENCES

[1]. Nassima Oumata, et al. Roscovitine-derived, dual-specificity inhibitors of cyclin-dependent kinases and casein kinases 1. J Med Chem. 2008 Sep 11;51(17):5229-42.

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

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