

Certificate of Analysis

| Catalog Number | BP13095 |
|----------------|-----------|
| Product Name | CCT129202 |

Physical and Chemical Properties

| CAS No. | 942947-93-5 |
|--|---|
| Chemical Formula | C23H25ClN8OS |
| Molecular Weight | 497.02 |
| Solubility | DMSO: 6 mM |
| Storage | Powder: -20°C for 2 years In solvent: -80°C for 1 year |
| Chemical Structure OR Tested Image | |

Product Information

| Description | CCT129202 is an ATP-competitive pan-Aurora inhibitor for Aurora A, Aurora B and Aurora C with IC50 of 0.042 μ M, 0.198 μ M and 0.227 μ M, respectively. It is less potent to FGFR3, GSK3 β , PDGFR β , etc. |
|-------------|---|
|-------------|---|

| Targets&IC50 | Aurora A:42 nM, Aurora B:198 nM, Aurora C:227 nM |
|--------------|--|
| In vitro | CCT129202 is an ATP-competitive inhibitor of recombinant Aurora A kinase with a Ki of 49.8 nM. CCT129202 at 1 μ M shows high selectivity for Aurora A and Aurora B with 92% and 60% inhibition, respectively. It inhibits FGFR3 slightly by 27%, and is not active against CRAF. CCT129202 inhibits proliferation in multiple cultures of human tumor cell lines with half-maximal growth inhibition (GI50) values ranging from 0.08 μ M for MV4-11 to 1.7 μ M for MDA-MB-157. The effects are in association with increased expression levels of Aurora A and Aurora B leading to aberrant mitosis. Treatment with CCT129202 (0.7 μ M) causes the accumulation of HCT116 cells with \geq 4N DNA content, leading to apoptosis in a time dependent manner. Application of CCT129202 in HCT116 cells causes decreased histone H3 phosphorylation and increased p53 protein stabilization, which are consistent with the inhibition of Aurora B and Aurora A, respectively. CCT129202 induces up-regulation of p21 in HCT116, HT29 and Hela cells in a p53 dependent and independent manner, which leads to decreased phosphorylation of the Rb protein and activity of E2F in a concentration-dependent manner. |
| In vivo | Administration of CCT129202 at 100 mg/kg in athymic mice bearing s.c. HCT116 colon cancer xenografts causes ~50% reduction of histone H3 phosphorylation after 30 minutes of treatment, and significantly inhibits tumor growth by 57.7% compared to control mice after a period of 9 days of treatment. |

Analytical Data

| HPLC | Shows Min >99% purity |
|---------------------------------|--|
| H-NMR | Consistent with structure |
| Stability and Solubility Advice | Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details. |

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