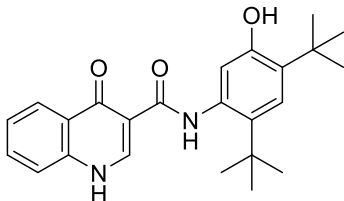




Certificate of Analysis

| | | |
|---------------------|----------------------|--------------|
| MedKoo Cat#: | Product Name: | Lot#: |
| 507210 | Ivacaftor | A9T08K30 |

| | |
|---|---|
| Chemical name | |
| N-(2,4-di-tert-butyl-5-hydroxyphenyl)-4-oxo-1,4-dihydroquinoline-3-carboxamide | |
| Synonyms | |
| VX770; VX 770; VX-770; Ivacaftor; brand name: KALYDECO | |
| Chemical structure | CAS# and Theoretical analysis |
|  | MedKoo Cat#: 507210 Name: Ivacaftor CAS#: 873054-44-5 Lot#: A9T08K30 Chemical Formula: C ₂₄ H ₂₈ N ₂ O ₃ Exact Mass: 392.20999 Molecular Weight: 392.49 |

| Analysis item | Specifications / Results |
|---------------------------|--|
| Appearance | White to off-white solid powder |
| Structure | ¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature. |
| Purity (HPLC) | >98.0% |
| Solubility | Soluble in DMSO |
| Conclusion | This product conforms with MedKoo's quality standards |
| Shipping condition | Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs. |
| Storage condition | Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition |
| Shelf life | At least 5 years if properly stored. |

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE