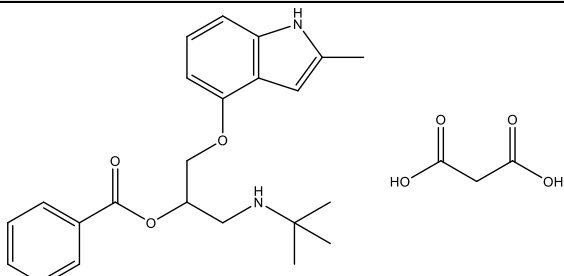


Certificate of Analysis

| | | |
|-------------------------------|---|--------------------------|
| MedKoo Cat#: 317330 | Product Name: Bopindolol Malonate | Lot#: C9M09C21 |
|-------------------------------|---|--------------------------|

| Chemical name | |
|---|--|
| [1-(tert-butylamino)-3-[(2-methyl-1H-indol-4-yl)oxy]propan-2-yl] benzoate;propanedioic acid | |
| Synonyms | |
| | |
| Chemical structure | CAS# and Theoretical analysis |
|  | MedKoo Cat#: 317330 Name: Bopindolol Malonate CAS#: 82857-38-3 (malonate) Lot#: C9M09C21 Chemical Formula: C ₂₆ H ₃₂ N ₂ O ₇ Exact Mass: 484.2210 Molecular Weight: 484.54 |

| 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, not in water |
| 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