

## PRODUCT IDENTITY

|                 |             |                |                                                 |
|-----------------|-------------|----------------|-------------------------------------------------|
| PRODUCT NAME    | Protopine   | PRODUCT NUMBER | P110327                                         |
| Grades & Purity | ≥98%        | VERSION        | 3                                               |
| CAS NUMBER      | 130-86-9    | FORMULA        | C <sub>20</sub> H <sub>19</sub> NO <sub>5</sub> |
| FORMULA WEIGHT  | 353.37g/mol |                |                                                 |

## ACCEPTANCE CRITERIA

| PARAMETER            | SPECIFICATION / LIMIT                                 |
|----------------------|-------------------------------------------------------|
| Appearance (P110327) | White to Light gray to Light yellow powder to crystal |
| Purity(HPLC)         | 98-100 (%)                                            |
| Proton NMR spectrum  | Conforms to Structure                                 |