## **Certificate of Analysis**



## **Product Identification Chemical Structure**

HB4199 Catalog number

Compound name

Chemical name

Batch number E1359-1-1 Batch molecular formula Batch molecular weight

Gemcitabine hydrochloride HCI (+)-2'-Deoxy-2',2'-difluorocytidine hydrochloride HO.  $C_9H_{11}F_2N_3O_4.HCI$ 299.66

## **QC Result** Method **QC** requirement Reverse Phase HPLC shows >98% purity HPLC Meets specification: 100% NMR 1H NMR in D<sub>2</sub>O at 400 MHz consistent with structure Meets specification Mass spectrum Electrospray positive analysis consistent with structure Meets specification Microanalysis Elemental analysis is within 0.4% for the batch Meets specification molecular formula TLC analysis in 50% PAW/BuOH shows one spot TLC Meets specification: R<sub>f</sub>=0.6 under uv Physical appearance White to off-white solid Meets specification: White solid Solubility Soluble in water (100 mM) and in DMSO (20 mM) Meets specification

Produced by Signature

Passed by Signature

Date

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.