Certificate of Analysis



Product Identification

Chemical Structure

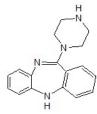
Catalog number HB4888

Compound name Compound 21 (DREADD agonist 21)

Chemical name 11-(1-Piperazinyl)-5H-dibenzo[b,e][1,4]diazepine

 $\begin{array}{ll} \textbf{Batch number} & E0640\text{-}9\text{-}10 \\ \textbf{Batch molecular formula} & C_{17}H_{18}N_{4}\text{,}0.2H_{2}O \end{array}$

Batch molecular weight 281.96



Method QC requirement

Reverse Phase HPLC shows >99% purity

NMR 1H NMR in CDCl₃ at 400 MHz consistent with structure

Mass spectrum MALDI analysis consistent with structure

Microanalysis Elemental analysis is within 0.4% for the batch

molecular formula

TLC analysis in 10% MeOH/DCM shows one spot

under UV

Physical appearance Yellow solid

Soluble in DMSO (100 mM) and in ethanol (100 mM)

QC Result

Meets specification: 99.3% Meets specification

Meets specification

Meets specification

Meets specification: R_f=0.3

Meets specification: Yellow solid

Meets specification

Biological validation

Produced by

Passed by

Signature

Signature

Date

Hun De

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