

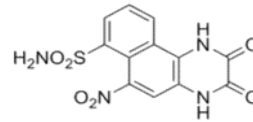
Certificate of Analysis



Product Identification

Catalog number HB0442
Compound name NBQX
Chemical name 2,3-Dioxo-6-nitro-1,2,3,4-tetrahydrobenzo[f]quinoxaline-7-sulfonamide

Batch number E1709-11-4
Batch molecular formula $C_{12}H_8N_4O_6S \cdot 0.6H_2O$
Batch molecular weight 340.78



Chemical Structure

Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
NMR	1H NMR in DMSO 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 molecular formula	Meets specification
TLC	TLC analysis using a solvent ratio of 1:1 PAW/BuOH shows a single spot (visualised by UV)	Meets specification: $R_f=0.75$
Physical appearance	Yellow solid	Meets specification: yellow solid
Solubility	Soluble in 0.2M NaOH (100 mM) and in DMSO (100 mM)	Meets specification

Produced by Richard Patterson

Signature

Passed by Steve Roome

Signature

Date

12/07/2022

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