

Certificate of Analysis

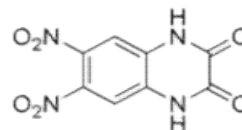


Product Identification

Catalog number HB0261
Compound name DNQX
Chemical name 6,7-Dinitroquinoxaline-2,3-dione

Batch number E0269-2-5
Batch molecular formula C₈H₄N₄O₆·0.25H₂O
Batch molecular weight 256.65

Chemical Structure



Method

QC requirement

QC Result

HPLC	HPLC shows more than 98% purity by RP analysis	Meets specification: >99% by HPLC
NMR	400MHz 1H spectrum in DMSO confirms structure and shows <1% of any other impurity	Meets specification
Mass spectrum	Electrospray positive analysis shows mass ion corresponding to [M+Na] ⁺	Meets specification: Mass ion: 275.0
Microanalysis	Elemental analysis is within 0.4 of expected result for each element tested	Meets specification: analysis fits for batch molecular formula
TLC	Analysis using a solvent ratio of 5:1 DCM/MeOH shows a single spot (visualised by UV)	Meets specification: Rf=0.73
Physical appearance	White to off white solid	Meets specification: Off-white Solid
Solubility	Soluble in DMSO to 100 mM	Meets specification

Produced by Huw Davies

Signature

Passed by Steve Roome

Signature

Date

29-02-16

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

Hello Bio Limited, Unit 3, IO Centre, Avonmouth, Bristol BS11 0QL. UK

T. +44 (0) 117 318 0505 F. +44 (0) 1179 811 601 customercare@helloworld.com technicalhelp@helloworld.com

Registered office: Unit 3, IO Centre, Avonmouth, Bristol BS11 0QL. UK

helloworld.com

Company Registration No. 08891750