

Certificate of Analysis

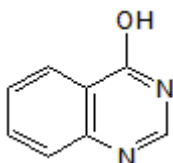
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Product Name: 4-HQN
CAS Number: 491-36-1
IUPAC Name: 4-(1*H*)-Quinazolinone

Catalog No.: 2192 **Batch No.:** 1
EC Number: 207-735-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₆N₂O
Batch Molecular Weight: 146.15
Physical Appearance: White solid
Solubility: water to 10 mM
DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.78 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: Between 216 - 219°C
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 491-36-1

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Description:

Inhibitor of poly(ADP-ribose) polymerase (PARP) ($IC_{50} = 9.5 \mu\text{M}$); displays mixed inhibition with respect to NAD^+ . Protective against ischemia-reperfusion induced ROS production, and subsequent mitochondrial and cell damage in rat heart. Anti-inflammatory in LPS-induced endotoxic mice in vivo; decreases NF- κB and AP-1 activation.

Physical and Chemical Properties:

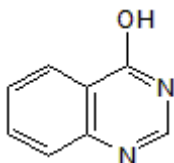
Batch Molecular Formula: $\text{C}_8\text{H}_6\text{N}_2\text{O}$

Batch Molecular Weight: 146.15

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Banasik et al (1992) Specific inhibitors of poly(ADP-ribose) synthetase and mono(ADP-ribosyl)transferase. *J.Biol.Chem.* **267** 1569. PMID: 1530940.

Halmosi et al (2001) Effect of poly(ADP-ribose) polymerase inhibitors on the ischemia-reperfusion-induced oxidative cell damage and mitochondrial metabolism in Langendorff heart perfusion system. *Mol.Pharmacol.* **59** 1497. PMID: 11353811.

Veres et al (2004) Regulation of kinase cascades and transcription factors by a poly(ADP-ribose) polymerase-1 inhibitor, 4-hydroxyquinazoline, in lipopolysaccharide-induced inflammation in mice. *J.Pharmacol.Exp.Ther.* **310** 247. PMID: 14999056.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 10 mM

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956