TOCRIS
a bio-techne brand

Print Date: Jan 11th 2016

Certificate of Analysis

www.tocris.com

Product Name: **BIBR 1532** **Catalog No.: 2981** **Batch No.: 4**

CAS Number: 321674-73-1

IUPAC Name: 2-[[(2*E*)-3-(2-Naphthalenyl)-1-oxo-2-butenyl1-yl]amino]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{17}NO_3.½H_2O$

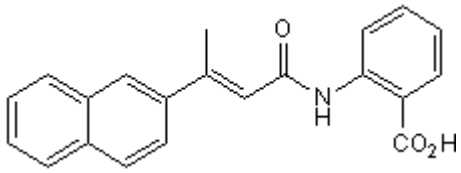
Batch Molecular Weight: 340.37

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 25 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (Ethyl acetate)

HPLC: Shows 98.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.1	5.33	4.12
Found	74.09	5.01	4.18

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

Product Name: **BIBR 1532** **Catalog No.: 2981** **Batch No.: 4**

CAS Number: 321674-73-1

IUPAC Name: 2-[[(2*E*)-3-(2-Naphthalenyl)-1-oxo-2-butenyl1-yl]amino]benzoic acid

Description:

Selective telomerase inhibitor (IC_{50} values are 93, > 100000 and > 100000 nM for human telomerase, human RNA polymerase I and human RNA polymerase II + III respectively). Causes telomere shortening in exponentially growing NCI-H460 lung carcinoma cells and eventual growth arrest.

Physical and Chemical Properties:

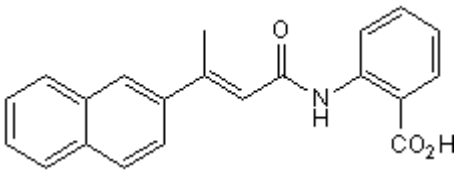
Batch Molecular Formula: $C_{21}H_{17}NO_3.½H_2O$

Batch Molecular Weight: 340.37

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 25 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.

References:

Damm *et al* (2001) A highly selective telomerase inhibitor limiting human cell proliferation. EMBO J. ***20*** 6958. PMID: 11742973.

Phatak and Burger (2007) Telomerase and its potential for therapeutic intervention. Br.J.Pharmacol. ***152*** 1003. PMID: 17603541.

Rankin *et al* (2008) Telomerase inhibitors and 'T-oligo' as caner therapeutics: contrasting molecular mechanisms of cytotoxicity. Anticancer Drugs ***19*** 329. PMID: 18454043.