Facile synthesis of potential antitumor novel N(9) methylated AHMA analogs.

Boris Redko, a,b Amnon Albeck b and Gary Gellerman *a

a. Department of Biological Chemistry, Ariel University Center of Samaria, Ariel 40700, Israel; b. The Julius Spokojny Bioorganic Chemistry Laboratory, Department of Chemistry, Bar-Ilan University, Ramat Gan 52900, Israel

*Correspondence to: Gary Gellerman

Dept. Biological Chemistry
Ariel University Center of Samaria
P.O.B. 3, Ariel 40700, Israel
Tel.: +972-3-937-1442; Fax: +972-3-906-6634

E-mail: garyg@ariel.ac.il

\(^1\)H NMR of Compound 12:
$^{13}$C NMR of Compound 12:

![13C NMR spectrum of Compound 12](image)

HRMS of Compound 12:

![HRMS spectrum of Compound 12](image)
$^1$H NMR of Compound 13:

$^{13}$C NMR of Compound 13:
HRMS of Compound 13:

\[ \text{5-(methylamino)-1,3-phenylene} \text{dimethanol} \]

\[ \text{\textsuperscript{1}H NMR of Compound 14:} \]

\[ \text{\textsuperscript{N}N-dimethylbenzene-1,3-diamine} \]
$^{13}$C NMR of Compound 14:

\[ \text{N}^1\text{N}^3\text{-dimethylbenzene-1,3-diamine} \]

HRMS of Compound 14:

\[ \text{N}^1\text{N}^3\text{-dimethylbenzene-1,3-diamine} \]
$^1$H NMR of Compound 15:

3,4-dimethoxy-N-methylaniline

$^{13}$C NMR of Compound 15:

3,4-dimethoxy-N-methylaniline
MS of Compound 15:

\[ \text{BR64X86 DC1 CH4} \]

BOR16: 160 (2.552) Cn (Gen.2, 20.00, H1; Cn (160.175)

1H NMR of Compound 16

(2-methyl-3-(methylamino)phenyl)methanol
$^{13}$C NMR of Compound 16:

![13C NMR spectrum](image)

HRMS of Compound 16:

![HRMS spectrum](image)
HMAC Compound 16:

HMBBC of Compound 16:
NOESY of Compound 16:

![NOESY Spectrum](image)

NOESY of Compound 16:

![NOESY Spectrum](image)
$^1$H NMR of Compound 17:

4-methoxy-N,N,2-dimethylaniline

$^{13}$C NMR of Compound 17:

4-methoxy-N,N,2-dimethylaniline
HRMS of Compound 17:

4-methoxy-N,2-dimethylaniline

1H NMR of Compound 18:
$^{13}$C NMR of Compound 18:

1H NMR of Compound 18:

HRMS of Compound 18:
$^1$H NMR of Compound 19:

$^{13}$C NMR of Compound 19:
HRMS of Compound 19:

$^{1}$$H$ NMR of Compound 20:
$^{13}$C NMR of Compound 20:

![13C NMR spectrum of Compound 20](image)

MS of Compound 20:

![MS spectrum of Compound 20](image)
$^1$H NMR of Compound 21:

$^{13}$C NMR of Compound 21:
HRMS of Compound 21:

\[
\text{BK24-EX39 HRMS DCI CH}4
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\text{BORIS2 354 (5:352) Cn (Top:4, H8); Sm (SG, 2x1.00); Sb (1.40.00); Cm (304.364)}
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85.102
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113.120
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149.018
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191.134
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328.182
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208.154
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285.291
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345.175
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391.287
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413.906
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501.330
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\text{(C-Hexyl-3,5-dihydroxyphenyl)-2-
}
\text{aminopropan-1-one (Bisphenol)}
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\text{1H NMR of Compound 22:}
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$^{13}$C NMR of Compound 22:

HRMS of Compound 22:
$^1$H NMR of Compound 23:

$^{13}$C NMR of Compound 23:

$N^1$-(acridin-9-yl)-$N^1,N^3$-dimethylbenzene-1,3-diamine
HRMS of Compound 23:

\[ \text{N}^1-(\text{acridin-9-yl})-\text{N}^1,\text{N}^3-\text{dimethylbenzene-1,3-diamine} \]

$^1$H NMR of Compound 24:
$^{13}$C NMR of Compound 24:

![Graph of $^{13}$C NMR spectrum with chemical structure and ppm values.

HRMS of Compound 24:

![Graph of HRMS spectrum with chemical structure and m/z values.
$^1$H NMR of Compound 25:

![$^1$H NMR spectrum of Compound 25](image)

$^{13}$C NMR of Compound 25:

![$^{13}$C NMR spectrum of Compound 25](image)
HRMS of Compound 25:

(5-(cond-2-yk)methylanine)-2-methylphenylmethanol