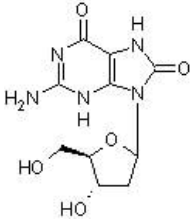


Product datasheet

8-Hydroxy-2'-deoxyguanosine, Oxidative stress biomarker ab145595

[1 References](#) [2 Images](#)

Overview

Product name	8-Hydroxy-2'-deoxyguanosine, Oxidative stress biomarker
Description	Oxidative stress biomarker
Purity	> 98%
General notes	This product is manufactured by BioVision, an Abcam company and was previously called 2177 8-Hydroxy-2'-deoxyguanosine. 2177-5 is the same size as the 5 mg size of ab145595.
CAS Number	88847-89-6
Chemical structure	

Properties

Chemical name	2-Amino-9-[(2R,4S,5R)-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]-3,7-dihydropurine-6,8-dione
Molecular weight	283.24
Molecular formula	C ₁₀ H ₁₃ N ₅ O ₅
PubChem identifier	73318
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 25 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>

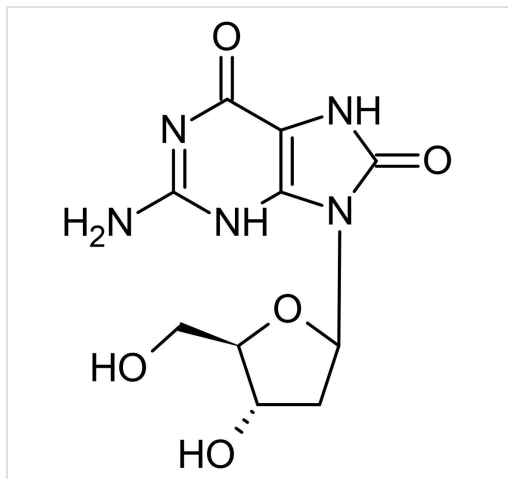
SMILES

C1[C@@H]([C@H](O[C@H]1N2C3=C(C(=O)N=C(N3)N)NC2=O)CO)O

Source

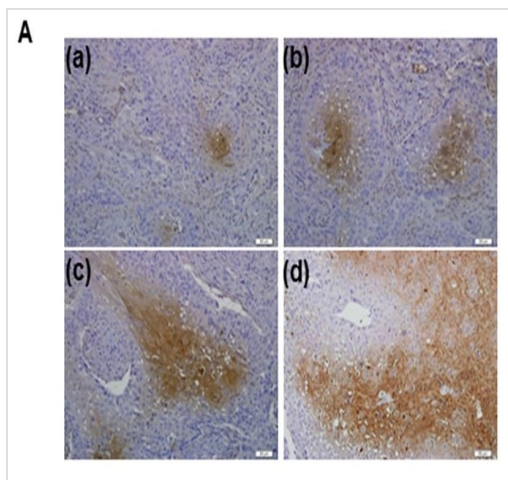
Synthetic

Images



2D chemical structure image of ab145595, 8-Hydroxy-2'-deoxyguanosine, Oxidative stress biomarker

Chemical Structure - 8-Hydroxy-2'-deoxyguanosine, Oxidative stress biomarker (ab145595)



Pimonidazole staining and 8-Hydroxy-2'-deoxyguanosine expression in xenograft tumors.

A, Hypoxia was detected in 2 mm (a), 5 mm (b), 10 mm (c) and 15 mm (d) tumors by pimonidazole staining.

Functional Studies - 8-Hydroxy-2'-deoxyguanosine, Oxidative stress biomarker (ab145595)

Zhang et al PLoS One. 2014 Aug 27;9(8):e105994. doi: 10.1371/journal.pone.0105994. eCollection 2014. Fig 4. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

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