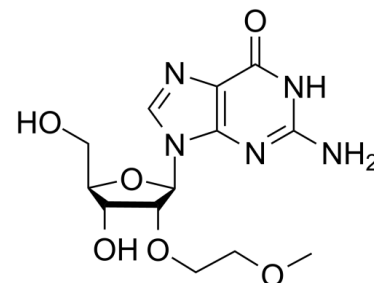


Data Sheet

Product Name:	2'-O-(2-Methoxyethyl)guanosine
Cat. No.:	CS-0114223
CAS No.:	473278-54-5
Molecular Formula:	C ₁₃ H ₁₉ N ₅ O ₆
Molecular Weight:	341.32
Target:	Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Solubility:	DMSO : 250 mg/mL (732.45 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

2'-O-(2-Methoxyethyl)guanosine (2'-O-MOE-rG), a 2'-O-methoxyethyl-modified nucleoside, can be produced by enzymatic conversion (adenosine deaminase) from 2'-O-(2-methoxyethyl)-2,6-diaminopurine riboside. 2'-O-(2-Methoxyethyl)guanosine neither effectively phosphorylated by cytosolic nucleoside kinases, nor are they incorporated into cellular DNA or RNA^{[1][2]}.

References:

[1]. McPherson AK, et, al. An Improved Process for the Manufacture of 5'-O-(4,4'-Dimethoxytrityl)-N2-isobutyryl-2'-O-(2-methoxyethyl)guanosine. Org. Process Res. Dev. 2020, 24, 11, 2583-2590.

[2]. Saleh AF, et, al. 2'-O-(2-Methoxyethyl) Nucleosides Are Not Phosphorylated or Incorporated Into the Genome of Human Lymphoblastoid TK6 Cells. Toxicol Sci. 2018 May 1;163(1):70-78.

CAIndexNames:

Guanosine, 2'-O-(2-methoxyethyl)-

SMILES:

O[C@H]1[C@@H](OCCOC)[C@H](N2C(N=C(N)NC3=O)=C3N=C2)O[C@@H]1CO

Caution: Product has not been fully validated for medical applications. For research use only.

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