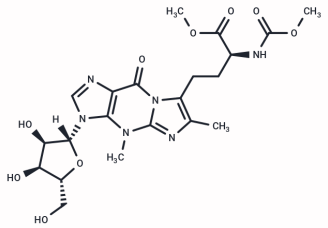
Wybutosine

Cat. No.: **SN-M-LM081**

Chemical Properties

Product Name	Wybutosine
Full Name	methyl (2S)-4-[3-[(2R,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-4,6-dimethyl-9-oxoimidazo[1,2-a]purin-7-yl]-2-(methoxycarbonylamino)butanoate
Cat. No.	SN-M-LM081
CAS No.	55196-46-8
Molecular Formula	C21H28N6O9
Molecular Weight	508.48
Storage	Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Shipping	Shipping with blue ice/Shipping at ambient temperature.
Purity	98+%

Structure



Biological Description

Wybutosine is a highly modified hypermodified nucleoside found at position 37 of eukaryotic and archaeal tRNA(Phe), adjacent to the anticodon loop. Its structure features a tricyclic core derived from a pyrimido[4,5-b]quinoline ring system with an amino acid side chain. Wybutosine plays a key role in stabilizing codon-anticodon interactions and maintaining translational reading frame fidelity through base-stacking interactions with the ribosome decoding site.

Related Products / Keywords

- Wybutosine

This product is a research reagent and must not be used for clinical validation or human therapeutic use.