

MORPHO-GDGT

Description:

Modified GDGT from *Sulfolobus acidocaldarius* for investigational use only.

Sample information:

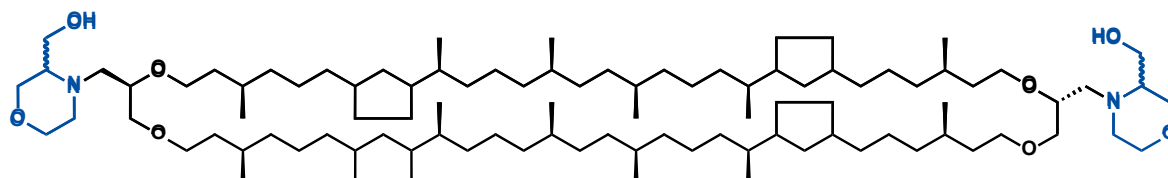
Product name	3-hydroxymethyl-morpholine-GDGT
Cat.#	90808
Physical appearance	colorless to slightly yellow oil
Apparent pKa value	4.85
Solubility in ethanol	10 mg/mL; solubility in ethanol with 1%(v/v) 1M HCl: 60 mg/mL
Solubility in <i>i</i> -propanol	100 mg/mL
Shipment	ambient temperature, packed under N ₂
Storage	-20 °C

Sample composition:

Lipid component	Chemical formula	Purity ²	Molecular mass (g/mol)
MORPHO-GDGT ¹	C ₉₆ H ₁₈₂ N ₂ O ₈	>95%	1492.52

GDGT... glycerol dialkyl glycerol tetraether

Structure:



Handling information:

Recommended solvents: dissolves in all common organic solvents (e.g. diethylether, dichloromethane, chloroform, THF, *i*-propanol, DMSO...)

The compound is stored under N₂ atmosphere.

For formulation experiments ethanol *absolute* or pure *i*-propanol are recommended as solvent. Note that traces of water, e.g. due to usage of ethanol 96%, lead to formation of a cloudy suspension.

To quantitatively dissolve the product in the original container it is recommended to thoroughly rinse the whole vial and cap with solvent.

¹ The GDGT moiety naturally occurs with 0 to 8 cyclopentane rings, resulting in minor deviations of the molecular mass.

² Based on NMR