

Product Datasheet

Ac4ManNAz (orb532361)

Catalog Number	orb532361
Category	Small Molecules
Description	The tetraacetylated N-Azidoacetyl-mannosamine (Ac 4ManNAz) provides a non-radioactive alternative for glycoconjugate visualization. It is cell-permeable, intracellularly processed and incorporated instead of its natural monosaccharide counterpart N-Acetylmannosamine(ManNAc). The resulting Azide-functionalized glycoconjugates can subsequently be detected via Cu(I)-catalyzed or Cu(I)-free Click Chemistry that offers the choice to introduce a Biotin group (via Azides of Biotin or DBCO-containing Biotin, respectively) for subsequent purification tasks or to introduce fluorescent group (via Azides of fluorescent dyes or DBCO-containing fluorescent dyes, respectively) for subsequent microscopic imaging. Recommended concentration for metabolic labeling: 25-75 M. This concentration range may serve as a starting point for an individual assay set-up.
Form/Appearance	oil; Color: off-white to grey
Purity	mass identification (ESI-MS)
MW	Theoretical MW: 430.37 g/mol; Detected MW: 430.13 g/mol
Application notes	Glycoconjugate synthesis monitoring by metabolic labeling.
Solubility (25°C)	DMSO, DMF, MeOH
CAS Number	361154-30-5
Formula	C ₁₆ H ₂₂ N ₄ O ₁₀
SMILES	<chem>[C@H]1([C@@H](C(O[C@@H]([C@H]1OC(=O)C)COC(=O)C)OC(=O)C)NC(=O)CN=[N+]=[N-])OC(=O)C</chem>
Storage	store at -20 °C

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

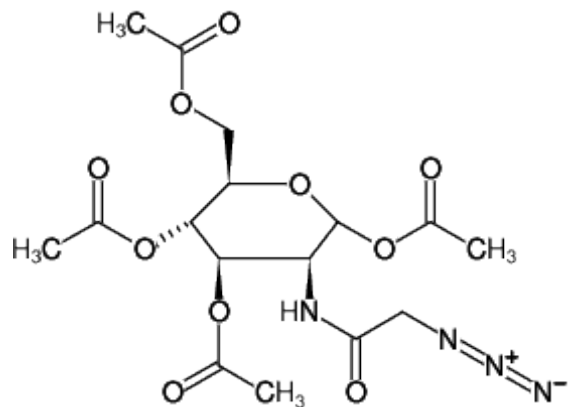
Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

Note For research use only

Expiration Date 12 months from date of receipt.



Structural formula of Ac4ManNAz.

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+44 \(0\)1223 859353](tel:+44201223859353) | Fax: [+1 \(415\) 651-8558](tel:+14156518558)

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+1 \(415\) 906-5211](tel:+14159065211) | Fax: [+1 \(415\) 651-8558](tel:+14156518558)