

Product Datasheet

6-Azido-Trehalose (orb532328)

Catalog Number	orb532328
Category	Small Molecules
Description	Myobacteria are characterized by a trehalose-lipopolysaccharide-containing outer cell membrane. The Azide-functionalized 6-Azido-Trehalose provides an attractive approach for the detection of Myobacteria in living cultures: It is cell-permeable, intracellularly processed and incorporated instead of its natural counterpart. The resulting Azide-functionalized lipopolysaccharides can subsequently be detected via Cu(I)-catalyzed or Cu(I)-free Click Chemistry that offers the choice to introduce a Biotin group (via Alkynes of Biotin or DBCO-containing Biotin, respectively) for subsequent purification tasks or to introduce fluorescent group (via Alkynes of fluorescent dyes or DBCO-containing fluorescent dyes, respectively) for subsequent microscopic imaging. Myobacteria strains tested: Mycobacterium smegmatis mc2155, Mycobacterium tuberculosis H37Rv, Mycobacterium bovis BCG.
Form/Appearance	solid; Color: white to off-white
Purity	90% (TLC)
MW	Theoretical MW: 367.31 g/mol; Detected MW: 367.12 g/mol
Application notes	Metabolic Lipopolysaccharide labeling of Myobacteria.
Solubility (25°C)	water, DMSO
Formula	C ₁₂ H ₂₁ N ₃ O ₁₀
SMILES	[C@H]1([C@H]([C@H](O[C@@H]([C@H]1O)CN=[N+]=[N-])O[C@@H]1[C@@H]([C@H]([C@@H]([C@H]([C@H](O1)CO)O)O)O)O)O
Storage	store at -20 °C
Hazard Information	Non-Toxic

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
United States

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

Note

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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:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

Biorbyt LLC

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

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

Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)