

Product Datasheet

Ac4GalNAz (orb532363)

Catalog Number	orb532363
Category	Small Molecules
Description	The tetraacetylated N-Azidoacetyl-galactosamine (Ac 4GalNAz) provides a non-radioactive alternative for glycoconjugate visualization. It is cell-permeable, intracellularly processed and incorporated instead of its natural monosaccharide counterpart N-Acetylgalactosamine (GalNAc). 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	amorphous solid; 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	653600-56-7
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

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Note	For research use only
Expiration Date	12 months from date of receipt.

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