



## Biotin sulfone tagged oligomannosides as immunogens for eliciting antibodies against specific mannan epitopes

Submitted by claire.leroy on Mon, 05/04/2015 - 17:12

Titre	Biotin sulfone tagged oligomannosides as immunogens for eliciting antibodies against specific mannan epitopes
Type de publication	Article de revue
Auteur	Despras, Guillaume [1], Robert, Raymond [2], Sendid, Boualem [3], Machez, Emeline [4], Poulain, Daniel [5], Mallet, Jean-Maurice [6]
Editeur	Elsevier
Type	Article scientifique dans une revue à comité de lecture
Année	2012
Langue	Anglais
Date	Mars 2012
Numéro	5
Pagination	1817-1831
Volume	20
Titre de la revue	Bioorganic and Medicinal Chemistry
ISSN	0968-0896
Mots-clés	Antibodies [7], ASCA [8], Biotin sulfone [9], Biotin tagged oligosaccharides [10], Biotinylation [11], Crohn Disease [12], Glycosylation [13], Odorless thiol [14], Steptavidin [15], Thioglycoside [16]
Résumé en anglais	Biotinylated tri and tetrasaccharide: $\alpha$ Man (1 $\rightarrow$ 3) $\alpha$ Man (1 $\rightarrow$ 2) $\alpha$ Man; $\alpha$ Man (1 $\rightarrow$ 3) $\alpha$ Man (1 $\rightarrow$ 2) $\alpha$ Man (1 $\rightarrow$ 2) $\alpha$ Man were prepared using methyl tertbutyl phenyl thioglycosides glycosyl donors (MBP) and biotin sulfone strategy. Three key mannosyl thioglycosidic donors have been prepared: one for 1 $\rightarrow$ 2 linkage and two for the 1 $\rightarrow$ 3 linkage (protected with a 4,6-O-benzylidene or a 4,6-di-O-benzyl). The benzylidene protected one was not found reactive enough, and the benzylated donor was preferred. These biotinylated oligomannosides were evaluated as antigen in Crohn disease diagnosis and used coupled to streptavidin as haptens for eliciting polyclonal antibodies in mice.
Notes	Dédié à la mémoire du Professeur Marc Julia (1922-2010).
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua10924">http://okina.univ-angers.fr/publications/ua10924</a> [17]
DOI	10.1016/j.bmc.2011.12.048 [18]
Lien vers le document	<a href="http://linkinghub.elsevier.com/retrieve/pii/S0968089611010662">http://linkinghub.elsevier.com/retrieve/pii/S0968089611010662</a> [19]
Titre abrégé	Bioorg Med Chem

### Liens

[1] [http://okina.univ-angers.fr/publications?f\[author\]=19199](http://okina.univ-angers.fr/publications?f[author]=19199)

- [2] [http://okina.univ-angers.fr/publications?f\[author\]=7780](http://okina.univ-angers.fr/publications?f[author]=7780)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=7956](http://okina.univ-angers.fr/publications?f[author]=7956)
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=19200](http://okina.univ-angers.fr/publications?f[author]=19200)
- [5] [http://okina.univ-angers.fr/publications?f\[author\]=7779](http://okina.univ-angers.fr/publications?f[author]=7779)
- [6] [http://okina.univ-angers.fr/publications?f\[author\]=19201](http://okina.univ-angers.fr/publications?f[author]=19201)
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=7943](http://okina.univ-angers.fr/publications?f[keyword]=7943)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=17069](http://okina.univ-angers.fr/publications?f[keyword]=17069)
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=17067](http://okina.univ-angers.fr/publications?f[keyword]=17067)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=17071](http://okina.univ-angers.fr/publications?f[keyword]=17071)
- [11] [http://okina.univ-angers.fr/publications?f\[keyword\]=10994](http://okina.univ-angers.fr/publications?f[keyword]=10994)
- [12] [http://okina.univ-angers.fr/publications?f\[keyword\]=16860](http://okina.univ-angers.fr/publications?f[keyword]=16860)
- [13] [http://okina.univ-angers.fr/publications?f\[keyword\]=7969](http://okina.univ-angers.fr/publications?f[keyword]=7969)
- [14] [http://okina.univ-angers.fr/publications?f\[keyword\]=17066](http://okina.univ-angers.fr/publications?f[keyword]=17066)
- [15] [http://okina.univ-angers.fr/publications?f\[keyword\]=17070](http://okina.univ-angers.fr/publications?f[keyword]=17070)
- [16] [http://okina.univ-angers.fr/publications?f\[keyword\]=17068](http://okina.univ-angers.fr/publications?f[keyword]=17068)
- [17] <http://okina.univ-angers.fr/publications/ua10924>
- [18] <http://dx.doi.org/10.1016/j.bmc.2011.12.048>
- [19] <http://linkinghub.elsevier.com/retrieve/pii/S0968089611010662>

Publié sur *Okina* (<http://okina.univ-angers.fr>)