

# MeSebGalNac is hydrolysed to MeSeH and

# bGalNac

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# Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

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## Literature references

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- Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res, 46*, D649-D655. ↗
- Fabregat, A., Korninger, F., Viteri, G., Sidiropoulos, K., Marin-Garcia, P., Ping, P. et al. (2018). Reactome graph database: Efficient access to complex pathway data. *PLoS computational biology*, *14*, e1005968. *オ*

This document contains 1 reaction (see Table of Contents)

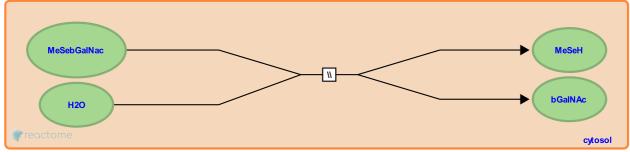
# MeSebGalNac is hydrolysed to MeSeH and bGalNac 7

Stable identifier: R-HSA-5333609

Type: omitted

#### Compartments: cytosol

Inferred from: MeSebGalNac is hydrolysed to MeSeH and bGalNac (Rattus norvegicus)



1beta-methylseleno-N-acetyl-D-galactosamine (MeSebGalNac) aka selenosugar B is hydrolysed to methylselenol (MeSeH) and N-acetyl-beta-D-galactosamine (bGalNac) by an unknown mechanism. The actual enzyme or enzymes involved have yet to be identified. This reaction is inferred from the event in rat (Suzuki et al. 2006).

#### Literature references

Suzuki, KT., Suzuki, N., Somekawa, L. (2006). Distribution and reuse of 76Se-selenosugar in selenium-deficient rats. *Toxicol. Appl. Pharmacol., 216*, 303-8. 🛪

### **Editions**

2014-05-06	Authored	Williams, MG.
2015-08-29	Edited	D'Eustachio, P.
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