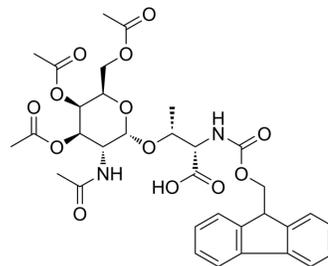


## Fmoc-Thr[GalNAc(Ac)3- $\alpha$ -D]-OH

Cat. No.:	HY-P0232
CAS No.:	116783-35-8
Molecular Formula:	C <sub>33</sub> H <sub>38</sub> N <sub>2</sub> O <sub>13</sub>
Molecular Weight:	670.66
Target:	Amino Acid Derivatives
Pathway:	Others
Storage:	Sealed storage, away from moisture Powder    -80°C    2 years -20°C    1 year



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### SOLVENT & SOLUBILITY

#### In Vitro

DMSO :  $\geq$  100 mg/mL (149.11 mM)  
\* " $\geq$ " means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.4911 mL	7.4553 mL	14.9107 mL
	5 mM	0.2982 mL	1.4911 mL	2.9821 mL
	10 mM	0.1491 mL	0.7455 mL	1.4911 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

AZP-531 is an analogue of unacylated ghrelin designed to improve glycaemic control and reduce weight.

#### In Vitro

The O-glycosidic linkage and the O-acetyl protection in this building block is stable to both piperidine and TFA, making it completely compatible with standard protocols in Fmoc solid phase peptide synthesis. The Tn antigen is a tumor-associated carbohydrate antigen that is not normally expressed in peripheral tissues or blood cells. Expression of this antigen, which is found in a majority of human carcinomas of all types, arises from a blockage in the normal O-glycosylation pathway in which glycans are extended from the common precursor GalNAc $\alpha$ 1-O-Ser/Thr (Tn +antigen). This precursor is generated in the Golgi apparatus on newly synthesized glycoproteins by a family of polypeptide  $\alpha$ -N-acetylgalactosaminyltransferases (ppGalNAcTs) and then extended to the common core 1 O-glycan Gal $\beta$ 1-3GalNAc $\alpha$ 1-O-Ser/Thr (T antigen) by a single enzyme termed the T-synthase (core 1  $\beta$ 3-galactosyltransferase or C1GalT). Formation of the active form of the T-synthase requires a unique molecular chaperone termed Cosmc, encoded by Cosmc on the X-chromosome<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Ju T, et al. The Cosmc connection to the Tn antigen in cancer. Cancer Biomark. 2014 Jan 1;14(1):63-81.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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