
Product Data Sheet

Product Name: Fmoc-Thr[GalNAc(Ac)3- α -D]-OH (Fmoc-Thr(AcAcNH- α -Gal)-OH)
Cat. No.: GC31758

Chemical Properties

Cas. No. 116783-35-8

Formula $C_{33}H_{38}N_2O_{13}$

M.Wt 670.66

Solubility DMSO : ≥ 100 mg/mL (149.11 mM)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

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

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 α 1-O-Ser/Thr (Tn +antigen). This precursor is generated in the Golgi apparatus on newly synthesized glycoproteins by a family of polypeptide α - N-acetylgalactosaminyltransferases (ppGalNAcTs) and then extended to the common core 1 O-glycan Gal β 1-3GalNAc α 1-O-Ser/Thr (T antigen) by a single enzyme termed the T-synthase (core 1 β 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[1].

[1]. Ju T, et al. The Cosmc connection to the Tn antigen in cancer. Cancer Biomark. 2014

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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