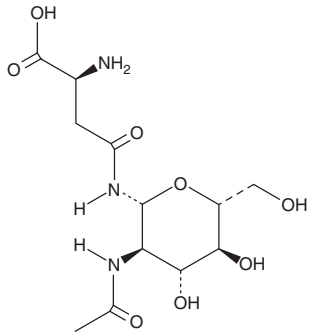
PRODUCT INFORMATION

H-Asn(GlcNAc-β-D)-OH

Item No. 46070

CAS Registry No.:	2776-93-4
Formal Name:	N-[2-(acetylamino)-2-deoxy-β-D-glucopyranosyl]-L-asparagine
Synonyms:	AADG, 2-Acetamido-1-(β-L-aspartamido)-1,2-dideoxyglucose, N-Acetylglucosaminylasparagine, Aspartylglycosamine
MF:	$C_{12}H_{21}N_3O_8$
FW:	335.3
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

H-Asn(GlcNAc-β-D)-OH is supplied as a solid. A stock solution may be made by dissolving the H-Asn(GlcNAc-β-D)-OH in the solvent of choice, which should be purged with an inert gas. H-Asn(GlcNAc-β-D)-OH is sparingly soluble (1-10 mg/ml) in DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of H-Asn(GlcNAc-β-D)-OH can be prepared by directly dissolving the solid in aqueous buffers. H-Asn(GlcNAc-β-D)-OH is sparingly soluble (1-10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

H-Asn(GlcNAc-β-D)-OH is a derivative of the amino acid L-asparagine (Asn; Item Nos. 35022 | 34519). During the catabolism of Asn-linked glycoproteins in the lysosome, H-Asn(GlcNAc-β-D)-OH is hydrolyzed *via* aspartylglucosaminidase to form Asn and N-acetylglucosamine (GlcNAc).[1,2] Urinary levels of H-Asn(GlcNAc-β-D)-OH are increased in patients with aspartylglycosaminuria, a lysosomal storage disorder characterized by neurological deficits and skeletal abnormalities.[2]

References

1. Aronson, N.N.J. and Kuranda, M.J. Lysosomal degradation of Asn-linked glycoproteins. *FASEB J.* **3(14),** 2615-2622 (1989).
2. Mononen, I., Fisher, K.J., Kaartinen, V., *et al.* Aspartylglycosaminuria: Protein chemistry and molecular biology of the most common lysosomal storage disorder of glycoprotein degradation. *FASEB J.* **7(13),** 1247-1256 (1993).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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