# GLP-2(rat) (Ala-$^{13}C_3$,$^{15}N$)

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| **Cat. No.:** | HY-P1142S |
| **Molecular Formula:** | $C_{163}{}^{13}C_3H_{256}N_{43}{}^{15}NO_{56}S$ |
| **Molecular Weight:** | 3800.11 |
| **Sequence:** | His-{Ala-13C3,15N}-Asp-Gly-Ser-Phe-Ser-Asp-Glu-Met-Asn-Thr-Ile-Leu-Asp-Asn-Leu-Ala-Thr-Arg-Asp-Phe-Ile-Asn-Trp-Leu-Ile-Gln-Thr-Lys-Ile-Thr-Asp |
| **Sequence Shortening:** | H-{Ala-13C3,15N}-DGSFSDEMNTILDNLATRDFINWLIQTKITD |
| **Target:** | Isotope-Labeled Compounds |
| **Pathway:** | Others |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |

## BIOLOGICAL ACTIVITY

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| **Description** | GLP-2(rat) (Ala-$^{13}C3$,$^{15}N$) is $^{13}C$ and $^{15}N$ labeled GLP-2(rat) (HY-P1142). GLP-2(rat) is an intestinal growth factor. GLP-2(rat) stimulates cell proliferation and inhibits apoptosis. GLP-2(rat) enhances mucosal mass and function in residual small intestine after massive small bowel resection (MSBR). |
| **In Vitro** | Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

## REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.



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