
Product Name	: Vosoritide	Pro-Gly-Gln-Glu-His-Pro-Asn-Ala-Arg-Lys-Tyr-Lys-Gly-Ala-Asn-Lys-Lys-Gly-Leu-Ser-Lys-Gly-Cys-Phe-Gly-Leu-Lys-Leu-Asp-Arg-Ile-Gly-Ser-Met-Ser-Gly-Leu-Gly-Cys (Disulfide bridge: Cys23-Cys39)
Cat. No.	: PC-27287	
CAS No.	: 1480724-61-5	
Molecular Formula	: C ₁₇₆ H ₂₉₀ N ₅₆ O ₅₁ S ₃	
Molecular Weight	: 4102.73	
Target	: Other Targets	
Solubility	: 10 mM in DMSO	

Biological Activity

Vosoritide (BMN-111) is a biologic analogue of C-type natriuretic peptide (CNP) and a potent stimulator of endochondral ossification, acts to restore chondrogenesis through its binding to natriuretic peptide receptor B (NPR-B, NPR2), resulting in the inhibition of downstream signalling pathways of the overactive FGFR3 gene.

Vosoritide (BMN-111) antagonizes FGFR3 downstream signaling by inhibiting the pathway of mitogen-activated protein kinase (MAPK).

Vosoritide (BMN-111) has a half-life 10 times that of CNP.

Vosoritide (BMN-111) is effective in significantly increasing the annualized growth velocity in children with achondroplasia before the fusion of the epiphyses.

References

Savarirayan R, et al. N Engl J Med. 2019 Jul 4;381(1):25-35.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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