

Total synthesis of (±)-Dragmacidin D ...



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Dragmacidins represent an emerging class of bioactive marine natural products obtained by an exhaustive set of protocols from a number of deep water sponges including Dragmacidon, Halicortex, Spongosorites, and Hexadella, and the tunicate *Didemnum candidum*. In particular, dragmacidin D is a potent inhibitor of serine threonine protein phosphatases (PP) and an *in vivo* nonsteroidal antiinflammatory agent. Additionally, dragmacidin D was found to selectively inhibit neural nitric oxide synthase (bNOS) in the presence of inducible NOS (iNOS).

