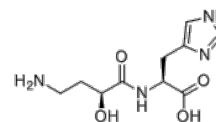


**Product Name** : SAN9812  
**Cat. No.** : PC-35233  
**CAS No.** :  
**Molecular Formula** : C<sub>10</sub>H<sub>16</sub>N<sub>4</sub>O<sub>4</sub>  
**Molecular Weight** : 256.262  
**Target** : Other Targets  
**Solubility** :



## Biological Activity

SAN9812 (Carnostatine) is a potent, highly selective, competitive inhibitor of Carnosinase 1 (CN1) activity with  $K_i$  of 11 nM; displays no activity against a standard panel of 33 different receptors, channels, transporters and enzymes; inhibits human recombinant CN1 at a carnosine concentration of 200  $\mu$ M with  $IC_{50}$  of 18 nM, also demonstrates inhibitory activity on human CN1 in serum from TG mice-expressing human CN1 and serum from healthy human volunteers with  $IC_{50}$  of 650 and 340 nM, respectively; increases carnosine levels in plasma and kidney in mice.

## References

Qiu J, et al. Amino Acids. 2018 Jun 20. doi: 10.1007/s00726-018-2601-z.

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

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