

## DOTA-NOC

<b>Cat. No.:</b>	HY-P2112
<b>CAS No.:</b>	619300-53-7
<b>Molecular Formula:</b>	C <sub>69</sub> H <sub>94</sub> N <sub>14</sub> O <sub>17</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	1455.7
<b>Sequence:</b>	{d-Phe}-Cys-Ala-{d-Trp}-Lys-Thr-Cys (Disulfide bridge: Cys2-Cys7)
<b>Sequence Shortening:</b>	{d-Phe}-CA-{d-Trp}-KTC (Disulfide bridge: Cys2-Cys7)
<b>Target:</b>	Somatostatin Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

## BIOLOGICAL ACTIVITY

<b>Description</b>	DOTA-NOC (DOTA-Nal3-octreotide) is a high-affinity ligand of somatostatin receptor subtypes 2, 3 and 5. DOTA-NOC can be used for labeling with various radiometals, and development of radiopeptide imaging <sup>[1]</sup> .					
<b>In Vitro</b>	Affinity profiles (IC <sub>50</sub> (μM)) for human somatostatin receptor (SST) 1-5 <sup>[1]</sup> .					
	Compound	hsst1	hsst2	hsst3	hsst4	hsst5
	In <sup>111</sup> -DOTA-NOC	>10000	2.9	8	227	11.2
	Y <sup>111</sup> -DOTA-NOC	>10000	3.3	26	>10000	10.4
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.					

## REFERENCES

[1]. Wild D, et al. DOTA-NOC, a high-affinity ligand of somatostatin receptor subtypes 2, 3 and 5 for labelling with various radiometals. Eur J Nucl Med Mol Imaging. 2003 Oct;30(10):1338-47.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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