

## (D-Arg8)-Inotocin

Cat. No.:	HY-P5010
CAS No.:	745816-74-4
Molecular Formula:	C <sub>39</sub> H <sub>68</sub> N <sub>14</sub> O <sub>11</sub> S <sub>2</sub>
Molecular Weight:	973.17
Sequence:	Cys-Leu-Ile-Thr-Asn-Cys-Pro-{d-Arg}-Gly-NH <sub>2</sub> (Disulfide bridge: Cys1-Cys6)
Sequence Shortening:	CLITNCP-{d-Arg}-G-NH <sub>2</sub> (Disulfide bridge: Cys1-Cys6)
Target:	Vasopressin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

(D-Arg8)-Inotocin is a potent, selective and competitive antagonist of vasopressin receptor (V<sub>1a</sub>R), with a K<sub>i</sub> of 1.3 nM. (D-Arg8)-Inotocin shows more than 3000-fold selectivity for the human V<sub>1a</sub>R over the other three subtypes, OTR, V<sub>1b</sub>R and V<sub>2</sub>R [1].

### REFERENCES

[1]. Giglio MGD, et, al. Development of a human vasopressin V<sub>1a</sub>-receptor antagonist from an evolutionary-related insect neuropeptide. Sci Rep. 2017 Feb 1;7:41002.

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

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