

**DATA SHEET**

**Product Name:** 7-Cl-O-Nec-1

**Catalog #:** CV-1033

**Alt:** CAS # 852391-15-2; Nec-1s; 5-((7-Chloro-1H-indol-3-yl)methyl)-3methylimidazolidine-2,4-dione

**Molecular Mass:** 277.7

**Analysis:** >98% (TLC); NMR (conforms)

**Supplied As:** Pale-yellow to off-white powder

**Resuspension:** May be dissolved in DMSO (25 mg/ml)

**Storage:** Store desiccated as supplied at ambient temperature for up to 2 years. Store solutions at -20°C for up to 3 months.

**Description:** A necrostatin-1 analog with superior potency<sup>2</sup>, selectivity<sup>3</sup> and metabolic stability at RIP1 inhibition ( $IC_{50} = 206$  vs  $494$  nM)<sup>1,2</sup>. Displays greater efficacy at inhibition of necroptosis in Jurkat cells with no non-specific cytotoxicity (100 nM)<sup>2</sup>. Ameliorates disease progression in elastase-induced mouse abdominal aortic aneurysm model<sup>4</sup>. Recommended for cellular and *in vivo* applications over necrostatin-1<sup>5</sup>.

**References:**

1. Degterev, A., et al., (2005) Nat. Chem. Biol., 1: 112
2. Teng, X., et al., (2005) Bioorg. Med. Chem. Lett., 15: 5039
3. Nakahashi, N., et al., (2012) Cell Death Dis., 3: e437
4. Wang, Q., et al., (2017) Sci. Rep., 7: 42159
5. Degterev, A., et al., (2013) Nat. Chem. Biol., 9: 192

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