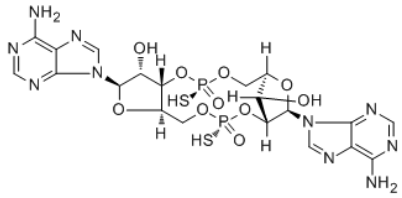
ProbeChem®
*Expedite Your Scientific Research*

WWW.PROBECHEM.COM

# Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

| | | |
|---|---|---|
| **Product Name** | : | ADU-S100 |
| **Cat. No.** | : | PC-43283 |
| **CAS No.** | : | 1638241-89-0 |
| **Molecular Formula** | : | $C_{20}H_{24}N_{10}O_{10}P_2S_2$ |
| **Molecular Weight** | : | 690.5431 |
| **Target** | : | STING |
| **Solubility** | : | 10 mM in DMSO |



## Biological Activity

ADU-S100 (MIW815, ML RR-S2 CDA) is a synthetic cyclic dinucleotide derivative that functions as a highly potent agonist of STING, enhances binding affinity to STING and activates all known human STING alleles.
ADU-S100 shows enhanced type I IFN production over CDA in THP-1 human monocytes, induces the highest expression of IFN-β and the pro-inflammatory cytokines TNF-α, IL-6, and MCP-1 on a molar equivalent basis, as compared to endogenous ML cGAMP and the TLR3 agonist poly I:C.
ADU-S100 also induces aggregation of STING and induces phosphorylation of TBK1 and IRF3 in mouse BMM, induces significantly higher levels of IFN-α when compared to ML cGAMP.
ADU-S100 demonstrates profound anti-tumor efficacy in established B16 melanoma.

## References

Corrales L, et al. ***Cell Rep.*** 2015 May 19;11(7):1018-30.

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

E-mail: tech@probechem.com