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## Product Data Sheet

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Product Name: CTA 056  
Cat. No.: GC50076

### Chemical Properties

Cas. No. 1265822-30-7

SMILES O=C2C(CC7=CC=CC=C7)=NC1=CC3=C(N=C(C5=CC=C(C6=CC=NC=C6)C=C5)N3CCCN4CCCCC4)C=C1N2

Formula C<sub>35</sub>H<sub>34</sub>N<sub>6</sub>O M.Wt 554.68

Solubility Soluble in DMSO Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon Condition request.

Structure

### Background

Interleukin-2-inducible T-cell kinase (ITK) inhibitor (IC<sub>50</sub> values are 0.1, 0.4 and 5 μM for ITK, BTK and ETK, respectively). Inhibits growth of cancer cells expressing ITK, including MOLT-4 and Jurkat cells in vitro. Induces apoptosis in Jurkat cells. Inhibits MOLT-4 xenograft tumor growth in mice.

Guo et al (2012) Molecular characteristics of CTA056, a novel interleukin-2-inducible T-cell kinase inhibitor that selectively targets malignant T cells and modulates oncomirs. Mol.Pharmacol. 82 938 PMID:22899868

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

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