LKT Laboratories, Inc.

# SMI-4a

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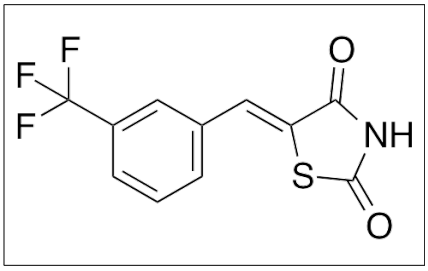
## Product Information

**Product ID** S4932
**CAS No.** 438190-29-5
**Chemical Name**
**Synonym**
**Formula** $C_{11}H_6F_3NO_2S$
**Formula Wt.** 273.23
**Melting Point**
**Purity** ≥99%
**Solubility**

| | |
|---|---|
| DMSO | 55 mg/mL (201.29 mM) |
| Ethanol | 32 mg/mL (117.11 mM) |
| Water | Insoluble |

**Store Temp** -20°C
**Ship Temp** Ambient




***Bulk quanitites available upon request***

| Product ID | Size |
|---|---|
| S4932 | 5 mg |
| S4932 | 10 mg |
| S4932 | 25 mg |

**Description** SMI-4a is a thiazolidine inhibitor of Pim kinase that displays anticancer chemotherapeutic activity. SMI-4a prevents phosphorylation of eIF4B and suppresses tumor growth in animal models of cancer. In myeloid and lymphoid cells, SMI-4a induces G1 phase cell cycle arrest, apoptosis, and cell death. Additionally, this compound delays tumor growth in animal models of precursor T-cell lymphoblastic leukemia/lymphoma.

**References**

Yang J, Wang J, Chen K, et al. eIF4B phosphorylation by pim kinases plays a critical role in cellular transformation by Abl oncogenes. Cancer Res. 2013 Aug 1;73(15):4898-908. PMID: 23749639.

Lin YW, Beharry ZM, Hill EG, et al. A small molecule inhibitor of Pim protein kinases blocks the growth of precursor T-cell lymphoblastic leukemia/lymphoma. Blood. 2010 Jan 28;115(4):824-33. PMID: 19965690.