
Product Data Sheet

Product Name: LM 10
Cat. No.: GC50265

Chemical Properties

Cas. No. 1316695-35-8

SMILES FC1=CC=C2C(NC=C2/C=C/C3=NN=NN3)=C1

Formula $C_{11}H_8FN_5$ M.Wt 229.21

Solubility Soluble in DMSO Storage Store at -20°C

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

Structure

Background

Selective tryptophan 2,3-dioxygenase (TDO) inhibitor (IC₅₀ values are 0.62 and 2 μM for human and mouse TDO, respectively). Exhibits selectivity for TDO over IDO, MAO-A, MAO-B, and a panel of receptors and transporters. Reduces growth of TDO-expressing P815 mastocytoma tumors in mice. Orally bioavailable.

Pilotte et al (2012) Reversal of tumoral immune resistance by inhibition of tryptophan 2,3-dioxygenase. Proc.Natl.Acad.Sci.U.S.A. 109 2497 PMID:22308364 | Dolusić et al (2011) Tryptophan 2,3-dioxygenase (TDO) inhibitors. 3-(2-(pyridyl)ethenyl)indoles as potential anticancer immunomodulators. J.Med.Chem. 54 5320 PMID:21726069

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

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