NLG919

Catalog #: 27337-1
Lot #: 150724

Size: 10 mg
Structure:

CAS Registry #: 1402836-58-1
Purity: ≥98%
Chemical Formula: C_{18}H_{22}N_{2}O
Molecular Weight: 282.4

Description: NLG919 is an orally available potent inhibitor of the indoleamine-(2,3)-dioxygenase (IDO) pathway, a crucial pathway involved in allergic inflammation that mediates immunosuppressive effects through metabolization of tryptophan to kynurenine. NLG919 affects differentiation and proliferation of T cells by inducing downstream signaling via GCN2, mTOR and AHR, with values of Ki = 7 nM and EC50 = 75 nM. NLG919 is being investigated for the treatment of immunosuppression associated with cancer.


Appearance: White powder

Solubility: Soluble in DMSO at 15 mg/ml.

Biological Activity: NLG919 potently blocks IDO-induced T cell suppression and restored T cell responses with a reported ED50 of 80 nM in vitro. NLG919 reduced the concentration of plasma and tissue kynurenine by ~50% after a single dose in mice. NLG919 enhanced the antitumor responses of naïve, resting pmel-1 T-cells to vaccination with cognate hgp100 peptide plus CpG-1826 in IFA in mice bearing B16F10 tumors.

Storage/Stability: Store as supplied at or below -20°C for up to 3 years. Stable in DMSO at -80°C for up to 6 months.

References: