

**Product Name** : NDMC101

**Synonyms** : —

**Cat No.** : M22188

**CAS Number** : 1308631-40-4

**Molecular Formula** : C<sub>13</sub>H<sub>9</sub>ClFNO<sub>2</sub>

**Formula Weight** : 265.66

**Chemical Name** : —

**Description** : NDMC101 is an inhibitor of dipeptidyl peptidase-IV activity in human T cells and exhibits immunomodulatory effects. It also acts as a novel inhibitor of NFATc1 and NF-κB activity. NDMC101 markedly inhibited RANKL-induced formation of TRAP+ multinucleated cells in RAW264.7 and bone marrow macrophage cells (BMMs). Moreover, pit formation assay showed that NDMC101 significantly reduced the bone-resorbing activity of mature osteoclasts[1]. In CIA mice, oral administration of NDMC101 reduced arthritic index and mitigated bone erosion. Serum TNF-α and IL-1β concentrations in these mice were decreased significantly at the higher dose of 62.5 mg/kg.

**Pathway** : Others

**Target** : Other Targets

**Receptor** : osteoclastogenesis

**Solubility** : —

**SMILES** : Oc1ccccc1C(=O)Nc1ccc(Cl)cc1F

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1. Cheng C P, Huang H S, Hsu Y C, et al. A benzamide-linked small molecule NDMC101 inhibits NFATc1 and NF-κB activity: a potential osteoclastogenesis inhibitor for experimental arthritis.[J]. Journal of Clinical Immunology, 2012, 32(4):762-777.