

| Catalog | Unit |
|--------------|-------|
| TBI5280-5MG | 5 mg |
| TBI5280-25MG | 25 mg |

Product Details

Formal Name: (E)-3-(4-Bromophenyl)-1-(4-(4-chlorobenzyl)-piperazin-1-yl)prop-2-en-1-one

Alternate Names: CID73169083; SID 173333998

Molecular Formula: C₂₀H₂₀BrClN₂O

Formula Weight: 419.7

CAS Number: 1597489-14-9

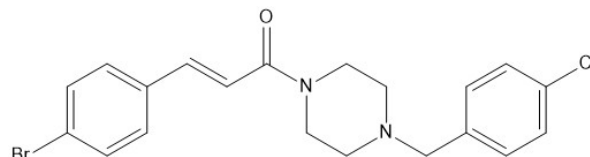
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (45 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

EBI2 (GPR183) antagonist

Functions

A potent antagonist of GPR183 (IC₅₀ = 1.03 nM) also known as EBI2 or Epstein-Barr virus-induced gene 2. ML401 inhibited 7 α ,25-dihydroxycholesterol-induced RS11846 cell chemotaxis, IC₅₀=6 nM. GPR183 is a key chemotactic receptor guiding B cell localization to appropriate microenvironments for activation and differentiation. It also regulates the homeostasis, localization and immunological function of splenic dendritic cells. Oxysterols have been shown to be endogenous ligands for GPR183 with 7 α ,25-dihydroxycholesterol being the most potent (K_d=450 pM).

Application Procedures

First dissolved in DMSO (45 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.