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Inhibitors, Screening Libraries, Proteins

## EBI2/GPR183

The Epstein-Barr virus (EBV) induced receptor 2 (EBI2; also known as GPR183) is an orphan member of the 7TM receptor family A. EBI2 is a constitutively active seven-transmembrane receptor. EBI2 has been placed in varying 7TM receptor subgroups by different phylogenetic analyses as being a target of peptide or lipid ligands. EBI2 constitutively activates extracellular signal-regulated kinase (ERK) in a pertussis toxin-insensitive manner. EBI2 is up-regulated up to 200-fold in B cells following EBV infection.

EBI2 activation stimulates immune cell migration and has been genetically linked to autoimmune diseases including type 1 diabetes. Small molecule modulators of EBI2 can be useful for probing the function of the receptor and its relevance to human diseases.

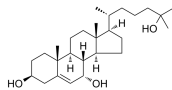
## EBI2/GPR183 Inhibitors, Agonists & Antagonists

### 7 $\alpha$ ,25-Dihydroxycholesterol

(7 $\alpha$ ,25-OHC)

Cat. No.: HY-113962

7 $\alpha$ , 25-dihydroxycholesterol (7 $\alpha$ ,25-OHC) is a potent and selective agonist and endogenous ligand of the orphan GPCR receptor **EBI2 (GPR183)**. 7 $\alpha$ , 25-dihydroxycholesterol is highly potent at activating EBI2 ( $EC_{50}$ =140 pM;  $K_d$ =450 pM).



**Purity:** ≥98.0%

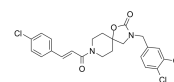
**Clinical Data:** No Development Reported

**Size:** 1 mg, 5 mg, 10 mg

### GSK682753A

Cat. No.: HY-101192

GSK682753A is a selective and highly potent inverse agonist of the epstein-barr virus-induced receptor 2 (**EBI2**) with an  $IC_{50}$  of 53.6 nM.



**Purity:** 99.84%

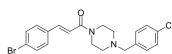
**Clinical Data:** No Development Reported

**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

### ML401

Cat. No.: HY-116814

ML401, a potent chemical probe, selectively antagonizes **EBI2** (also known as **GPR183**) with an  $IC_{50}$  of 1.03 nM. ML401 displays activity in a chemotaxis assay ( $IC_{50}$ =6.24 nM). ML401 shows good stability and no toxicity.



**Purity:** 99.87%

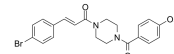
**Clinical Data:**

**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

### NIBR189

Cat. No.: HY-12336

NIBR189 is a small molecule antagonist of the Epstein-Barr virus-induced gene 2 (**EBI2**; **GPR183**) receptor with  $IC_{50}$  of 16 nM(Binding) and 11 nM (Functional).



**Purity:** ≥99.0%

**Clinical Data:** No Development Reported

**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg