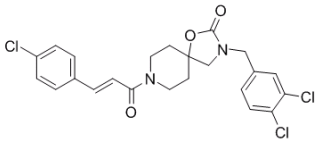
Data Sheet

Product Name:	GSK682753A
Cat. No.:	HY-101192
CAS No.:	1334294-76-6
Molecular Formula:	$C_{23}H_{21}Cl_3N_2O_3$
Molecular Weight:	479.78
Target:	EBI2/GPR183
Pathway:	GPCR/G Protein
Solubility:	DMSO: ≥ 27 mg/mL



BIOLOGICAL ACTIVITY:

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.

IC50 & Target: IC50: 53.6 nM (EBI2)[1]

In Vitro: GSK682753 is a selective and highly potent inverse agonist for murine as well as human EBI2 with inhibition of G protein-dependent signals as well as signals that are probably G protein-independent. In cAMP-response element-binding protein-based reporter and guanosine5'-3-O-(thio)-triphosphate (GTPγS) binding assays, the potency of this compound is 2.6-53.6 nM, and its inhibitory efficacy is 75%. GSK682753A dose-dependently inhibits EBI2 with an $IC_{50}$of 53.6 nM. GSK682753A inhibits ERK phosphorylation, GTPγS binding, and cAMP-response element-binding protein activation with similar potency[1].

PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay: [1]The effect of GSK682753A on cAMP-induced CREB activation is measured. GSK682753A at varying concentrations is added when the transfection is stopped with a DMSO concentration after compound addition of 0.1%. The CREB activity is determined 24 h after transfection using the LucLite substrate[1].

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA