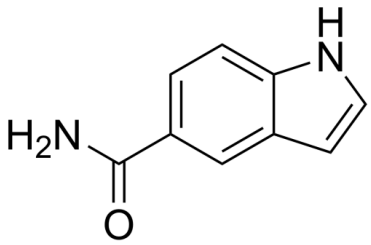
Data Sheet

Product Name:	SD-169
Cat. No.:	CS-W016161
CAS No.:	1670-87-7
Molecular Formula:	$C_9H_8N_2O$
Molecular Weight:	160.18
Target:	p38 MAPK
Pathway:	MAPK/ERK Pathway
Solubility:	DMSO : 100 mg/mL (624.30 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

SD-169 is an orally active ATP-competitive inhibitor of **p38α MAPK**, with an **IC_{50}** of 3.2 nM. SD-169 also weakly inhibits **p38β MAPK** with an **IC_{50}** of 122 nM. SD-169 prevents the development and progression of diabetes by inhibiting T cell infiltration and activation[1]. IC50 & Target: IC50: 3.2 nM (p38α MAPK), 122 nM (p38β MAPK)[1] ***In Vitro:*** SD-169 significantly reduces p38 and HSP60 expression in T cells of the pancreatic beta islets[1].

SD-169 demonstrates 38-fold potency against p38α MAP kinase (IC_{50}=3.2 nM) than p38β MAP kinase (IC_{50}=122 nM)[1].

References:

[1]. Medicherla S, et al. Preventive and therapeutic potential of p38 alpha-selective mitogen-activated protein kinase inhibitor in nonobese diabetic mice with type 1 diabetes. J Pharmacol Exp Ther. 2006 Jul;318(1):99-107.

CAIndexNames:

1H-Indole-5-carboxamide

SMILES:

O=C(C1=CC2=C(NC=C2)C=C1)N

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