



SC75741

Cat. No.:	OB0225WX-2677
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and HPLC.
Size:	10 mg; 50 mg; 1 g

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	SC75741 acts as a potent inhibitor of the NF-kappaB signaling pathway with an effective concentration (EC50) of 200 nM.
Synonym	913822-46-5; 4-Thiazolecarboxamide, <i>N</i> -(6-benzoyl-1 <i>H</i> -benzimidazol-2-yl)-2-(1-thieno[3,2- <i>d</i>]pyrimidin-4-yl-4-piperidinyl)-; <i>N</i> -(6-benzoyl-1 <i>H</i> -benzimidazol-2-yl)-2-(1-thieno[3,2- <i>d</i>]pyrimidin-4-yl-4-piperidinyl)-4-thiazolecarboxamide; <i>N</i> -(6-benzoyl-1 <i>H</i> -benzimidazol-2-yl)-2-(1-thieno[3,2- <i>d</i>]pyrimidin-4-yl)piperidin-4-yl)-1,3-thiazole-4-carboxamide; <i>n</i> -(6-benzoyl-1 <i>H</i> -benzo[<i>d</i>]imidazol-2-yl)-2-(1-(thieno[3,2- <i>d</i>]pyrimidin-4-yl)piperidin-4-yl)thiazole-4-carboxamide; SC-75741; <i>N</i> -(5-benzoyl-1 <i>H</i> -1,3-benzodiazol-2-yl)-2-(1-(thieno[3,2- <i>d</i>]pyrimidin-4-yl)piperidin-4-yl)-1,3-thiazole-4-carboxamide; <i>N</i> -(6-benzoyl-1 <i>H</i> -1,3-benzodiazol-2-yl)-2-(1-(thieno[3,2- <i>d</i>]pyrimidin-4-yl)piperidin-4-yl)-1,3-thiazole-4-carboxamide
CAS No.	913822-46-5
Compound CID	23661638
Formula	C ₂₉ H ₂₃ N ₇ O ₂ S ₂
Formula Weight	565.67

Specification

IUPAC Name	<i>N</i> -(6-Benzoyl-1 <i>H</i> -benzimidazol-2-yl)-2-(1-thieno[3,2- <i>d</i>]pyrimidin-4-yl)piperidin-4-yl)-1,3-thiazole-4-carboxamide
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InChI	InChI=1S/C29H23N7O2S2/c37-24(17-4-2-1-3-5-17)19-6-7-20-22(14-19)34-29(33-20)35-27(38)23-15-40-28(32-23)18-8-11-36(12-9-18)26-25-21(10-13-39-25)30-16-31-26/h1-7,10,13-16,18H,8-9,11-12H2,(H2,33,34,35,38)
InChI Key	QNZVBFMXWNWVKG-UHFFFAOYSA-N
SMILES string	<chem>C1CN(CCC1C2=NC(=CS2)C(=O)NC3=NC4=C(N3)C=C(C=C4)C(=O)C5=CC=CC=C5)C6=NC=NC7=C6SC=C7</chem>
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	SC75741 is employed in virology and inflammation research as a potent inhibitor of NF-kappaB signaling to study the suppression of viral replication and the red uction of pro-inflammatory gene expression.

Library Information

Target	NF-κB
Receptor	NF-κB
Pathways	NF-κB
Plate Number	L6700-08
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	35 mg/mL; 61.87 mM
ALogP	5.57
HBA_Count	6
HBD_Count	2
Rotatable Bond	6