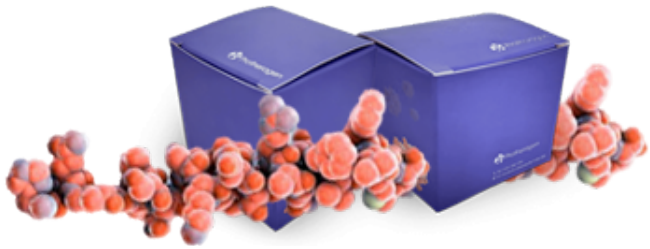
Protheragen Obesity



Doramapimod

Cat. No.:	OB0225LY-0428
Appearance:	Solid
Purity:	≥98%
Identity:	Confirmed by NMR, HPLC, and LC-MS.
Size:	5 mg; 10 mg; 25 mg; 50 mg; 100 mg; 200 mg; 500 mg; 1 g

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

Product Overview

Description	Doramapimod is a small molecule MAPK pathway inhibitor that primarily targets p3 8 MAPK.
Synonym	BIRB 796; 285983-48-4; BIRB-796; BIRB 796 (Doramapimod); BIRB796; BIRB-796 BS; B IRB 796 BS; 3-[3-*tert*-Butyl-1-(4-methylphenyl)-1*H*-pyrazol-5-yl]-1- {4-[2-(morpholin-4-yl)ethoxy]naphthalen-1-yl}urea; 1-[5-*tert*-Butyl-2-(4-m ethylphenyl)pyrazol-3-yl]-3-[4-(2-morpholin-4-ylethoxy)naphthalen-1-yl]urea; 1-(3-(*tert*-Butyl)-1-(*p*-tolyl)-1*H*-pyrazol-5-yl)-3-(4-(2-morphol inoethoxy)naphthalen-1-yl)urea
CAS No.	285983-48-4
Compound CID	156422
Formula	$C_{31}H_{37}N_5O_3$
Formula Weight	527.66

Specification

Relative Density	1.2 g/cm^3
IUPAC Name	1-[5-*tert*-Butyl-2-(4-methylphenyl)pyrazol-3-yl]-3-[4-(2-morpholin-4-yleth oxy)naphthalen-1-yl]urea
InChI	InChI=1S/C31H37N5O3/c1-22-9-11-23(12-10-22)36-29(21-28(34-36)31(2,3)4)33-30(37)3 2-26-13-14-27(25-8-6-5-7-24(25)26)39-20-17-35-15-18-38-19-16-35/h5-14,21H,15-20H 2,1-4H3,(H2,32,33,37)
InChI Key	MVCOAUNKQVWQHZ-UHFFFAOYSA-N

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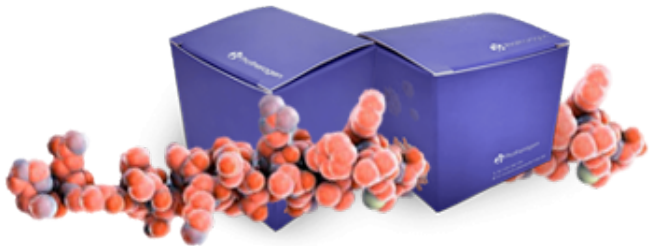

SMILES string	CC1=CC=C(C=C1)N2C(=CC(=N2)C(C)(C)C)NC(=O)NC3=CC=C(C4=CC=CC=C43)OCCN5CCOCC5
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	Doramapimod can be used in cell signaling studies to explore the role of p38 MAP K in different biological processes.

Library Information

Targets	Serine/Threonine kinases
Receptors	p38 MAPK; p38α; Raf
Pathways	MAPK; Autophagy
Plate Number	AOCL-6
Plate Location	e4
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10 mM DMSO
DMSO Max Solubility	20 mg/mL; 37.9 mM
Ethanol Max Solubility	26.4 mg/mL; 50 mM
ALogP	5.907
HBA_Count	4
HBD_Count	2
Rotatable Bond	8

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