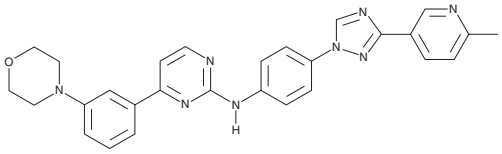
PRODUCT INFORMATION

SR 3306

Item No. 45342

CAS Registry No.:	1128096-91-2
Formal Name:	N-[4-[3-(6-methyl-3-pyridinyl)-1H-1,2,4-triazol-1-yl]phenyl]-4-[3-(4-morpholinyl)phenyl]-2-pyrimidinamine
MF:	$C_{28}H_{26}N_8O$
FW:	490.6
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

SR 3306 is supplied as a solid. A stock solution may be made by dissolving the SR 3306 in the solvent of choice, which should be purged with an inert gas. SR 3306 is slightly soluble (0.1-1 mg/ml) in DMSO.

Description

SR 3306 is a pan-JNK inhibitor (IC_{50}s = 67, 283, and 159 nM for JNK1, JNK2, and JNK3, respectively).[1] It is selective for JNK1-3 over p38 MAPK (IC_{50} = >20 µM). SR 3306 (300-1,000 nM) reduces cell death induced by N-methyl-4-phenylpyridinium (MPP^+) in primary rat mesencephalic dopaminergic neurons. It reduces MPTP- or 6-OHDA-induced neurodegeneration of dopaminergic neurons in the mouse substantia nigra pars compacta.[1,2] SR 3306 (10 mg/kg) decreases D-amphetamine-induced circling in rats in a 6-OHDA model of Parkinson's disease.[2] It also enhances leptin-induced STAT3 activation in the hypothalamus, reduces food intake, decreases body weight in diet-induced obese (DIO) mice when administered at a dose of 30 mg/kg.[3]

References

1. Chambers, J.W., Pachori, A., Howard, S., *et al.* Small molecule c-jun-N-terminal kinase (JNK) inhibitors protect dopaminergic neurons in a model of Parkinson's disease. *ACS Chem. Neurosci.* **2(4)**, 198-206 (2011).
2. Crocker, C.E., Khan, S., Cameron, M.D., *et al.* JNK Inhibition protects dopamine neurons and provides behavioral improvement in a rat 6-hydroxydopamine model of Parkinson's disease. *ACS Chem. Neurosci.* **2(4)**, 207-212 (2011).
3. Gao, S., Howard, S., and LoGrasso, P.V. Pharmacological inhibition of c-Jun N-terminal kinase reduces food intake and sensitizes leptin's anorectic signaling actions. *Sci. Rep.* **7**, 41795 (2017).

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