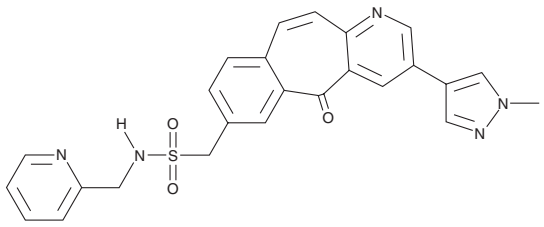
PRODUCT INFORMATION

MK-8033

Item No. 43662

CAS Registry No.:	1001917-37-8
Formal Name:	3-(1-methyl-1H-pyrazol-4-yl)-5-oxo-N-(2-pyridinylmethyl)-5H-benzo[4,5]cyclohepta[1,2-b]pyridine-7-methanesulfonamide
MF:	$C_{25}H_{21}N_5O_3S$
FW:	471.5
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

MK-8033 is supplied as a solid. A stock solution may be made by dissolving the MK-8033 in the solvent of choice, which should be purged with an inert gas. MK-8033 is slightly soluble (0.1-1 mg/ml) in acetnonitrile and DMSO.

Description

MK-8033 is a dual inhibitor of c-Met and Ron (IC_{50}s = 1 and 7 nM, respectively).[1] It reduces phosphorylated c-Met levels in GTL-16 gastric cancer cells (IC_{50} = 0.03 µM) and inhibits the proliferation of the same cells (IC_{50} = 0.58 µM). It induces apoptosis in and reduces the migration of OMM2.5, Mel202, and Mel285 uveal melanoma cells at 2.5 µM.[2] MK-8033 (10-100 mg/kg, p.o.) reduces tumor volume in a GTL-16 mouse xenograft model.[1]

References

1. Northrup, A.B., Katcher, M.H., Altman, M.D., *et al*. Discovery of 1-[3-(1-methyl-1H-pyrazol-4-yl)-5-oxo-5H-benzo[4,5]cyclohepta[1,2-b]pyridin-7-yl]-N-(pyridin-2-ylmethyl)methanesulfonamide (MK-8033): A specific c-Met/Ron dual kinase inhibitor with preferential affinity for the activated state of c-Met. *J. Med. Chem.* **56(6)**, (2013).
2. Chattopadhyay, C., Grimm, E.A., and Woodman, S.E. Simultaneous inhibition of the HGF/MET and Erk1/2 pathways affect uveal melanoma cell growth and migration. *PLoS One.* **9(2)**, (2014).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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