MSC 2032964A

| Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: | HY-110262 1124381-43-6 C ₁₆ H ₁₃ F ₃ N ₆ O 362.31 p38 MAPK | |
|---|--|------|
| Target: Pathway: Storage: | p38 MAPK MAPK/ERK Pathway Please store the product under the recommended conditions in the Certificate of Analysis. | √ NH |

Product Data Sheet

| Description | MSC 2032964A is an orally active, selective inhibitor for apoptosis signal-regulating kinase 1(ASK1) with IC ₅₀ of 96 nM. MSC 2032964A preserves the visual responses in EAE mice model and exhibits potency in ameliorating the neuroinflammation ^[1] . | | |
|-------------|--|--|--|
| In Vitro | MSC 2032964A (10 μM) reveals a good metabolic stability with microsomal clearance <4 ml/min/mg, and a good apparent permeability ^[1] . MSC 2032964A (10 μM) inhibits Lipopolysaccharide (LPS, HY-D1056)-induced ASK1 and p38 phosphorylation in mouse astrocytes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1] | | |
| | Cell Line: | mouse astrocytes | |
| | Concentration: | 10 µM | |
| | Incubation Time: | 90 min | |
| | Result: | Inhibited phosphorylation of ASK1 and p38. | |
| In Vivo | MSC 2032964A (5 mg/kg, p.o.) exhibits an oral bioavailability of 82%, a clearance of 1.1 L/kg/ h, a half-life of 5.2 h and a volume of distribution V _{ss} of 1.0 L/kg in SPrague Dawley rats ^[1] . MSC 2032964A (30 mg/kg, p.o., once daily for 40 days) attenuates neurological symptoms in both spinal cord and optic nerve lesions, and thus ameliorates the MOG (35-55) (HY-P1240)-induced autoimmune encephalomyelitis in C57BL/6J mice model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | |
| | Animal Model: | MOG (35-55)-induced autoimmune encephalomyelitis in C57BL/6J mice $^{[1]}$ | |
| | Dosage: | 30 mg/kg | |
| | Administration: | p.o., once daily for 40 days | |
| | Result: | Reduced demyelination in optic nerve, decreased astrocyte and microglia activation in spinal cord. | |

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REFERENCES

[1]. Guo X, et al., Regulation of the severity of neuroinflammation and demyelination by TLR-ASK1-p38 pathway. EMBO Mol Med. 2010 Dec;2(12):504-15.

Caution: Product has not been fully validated for medical applications. For research use only.

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