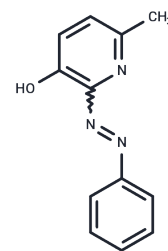


SIB-1757

Chemical Properties

CAS No. : 31993-01-8
 Formula: C₁₂H₁₁N₃O
 Molecular Weight: 213.24
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | SIB-1757 (6-methyl-2-[(E)-phenyldiazenyl]pyridin-3) is a selective antagonist of mGlu5 metabotropic glutamate receptor subtype (hmGlu5, IC ₅₀ : 0.4 μM) |
| Targets(IC ₅₀) | GluR |
| In vivo | SIB-1757 was given by either intrathecal (i.th.), subcutaneous (s.c.) or intraplantar (i.pl.) injection. In SNL rats, i.th. SIB-1757 produced a partial reversal of tactile allodynia with a shallow dose-response curve ranging over three-orders of magnitude; SIB-1757 was inactive against allodynia when given systemically. SIB-1757 produced full reversal of thermal hyperalgesia in SNL rats following administration either spinally or locally to the injured paw; administration to the contralateral paw had no effect. SIB-1757 did not produce antinociception in either the SNL or sham-operated rats by any route[1]. |

Solubility Information

| | |
|------------|----------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 5.5 mg/mL (25.79 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|----------------------------------------------------------------------------------------------------------------------------|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.6896 mL | 23.4478 mL | 46.8955 mL |
| 5 mM | 0.9379 mL | 4.6896 mL | 9.3791 mL |
| 10 mM | 0.469 mL | 2.3448 mL | 4.6896 mL |
| 50 mM | 0.0938 mL | 0.469 mL | 0.9379 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Dogrul A , Ossipov M H , Lai J , et al. Peripheral and spinal antihyperalgesic activity of SIB-1757, a metabotropic glutamate receptor (mGLUR5) antagonist, in experimental neuropathic pain in rats[J]. 2000, 292(2):0-118.

Varney M A A , Cosford N D P , Jachec C , et al. SIB-1757 and SIB-1893: selective, noncompetitive antagonists of metabotropic glutamate receptor type 5[J]. Journal of Pharmacology & Experimental Therapeutics, 1999, 290(1): 170-181.

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