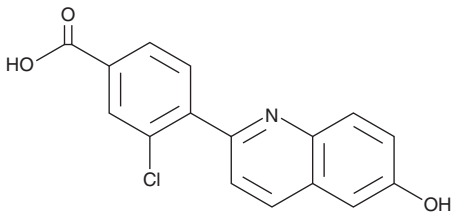
PRODUCT INFORMATION

Cavosonstat

Item No. 42896

CAS Registry No.: 1371587-51-7
Formal Name: 3-chloro-4-(6-hydroxy-2-quinolinyl)-benzoic acid
Synonym: N91115
MF: $C_{16}H_{10}ClNO_3$
FW: 299.7
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

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

Description

Cavosonstat is an inhibitor of S-nitrosoglutathione reductase (GSNOR; IC_{50} = 16 nM).[1] It decreases disease severity, spinal cord T cell infiltration, demyelination, axonal loss, and body weight loss in a mouse model of experimental autoimmune encephalomyelitis (EAE) when administered at a dose of 5 mg/kg.[2]

References

1. Muthukaman, N., Deshmukh, S., Tondlekar, S., *et al*. Discovery of 5-(2-chloro-4'-(1H-imidazol-1-yl)-[1,1'-biphenyl]-4-yl)-1H-tetrazole as potent and orally efficacious S-nitrosoglutathione reductase (GSNOR) inhibitors for the potential treatment of COPD. Bioorg. *Med. Chem. Lett*. **28(23-24)**, 3766-3773 (2018).
2. Singh, I., Kim, J., Touhidul Islam, S.M., *et al*. The role of S-nitrosoglutathione reductase (GSNOR) in T cell-mediated immunopathology of experimental autoimmune encephalomyelitis (EAE). *Neuroscience* **564**, 1-12 (2025).

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.

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