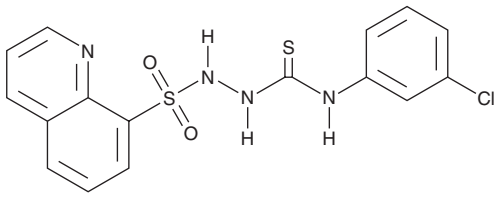
PRODUCT INFORMATION

QST4

Item No. 46478

CAS Registry No.:	2991427-35-9
Formal Name:	2-[[(3-chlorophenyl)amino]thioxomethyl] hydrazide 8-quinolinesulfonic acid
MF:	$C_{16}H_{13}ClN_4O_2S_2$
FW:	392.9
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

QST4 is supplied as a solid. A stock solution may be made by dissolving the QST4 in the solvent of choice, which should be purged with an inert gas. QST4 is sparingly soluble (1-10 mg/ml) in DMSO.

Description

QST4 is an antitubercular agent.[1] It is active against *M. tuberculosis* H37Rv (MIC = 6.25 µM) and *M. tuberculosis* clinical isolates resistant to isoniazid (Item No. 20378) and carrying *inhA* promoter or *katG* mutations (MICs = 13.05 and 21.47 µM, respectively) but not against *P. aeruginosa*, *K. pneumoniae*, or *C. albicans* (MICs = >500 µg/ml for all).

Reference

1. Özcan, E., Vagolu, S.K., Gündüz, M.G., *et al.* Novel quinoline-based thiosemicarbazide derivatives: Synthesis, DFT calculations, and investigation of antitubercular, antibacterial, and antifungal activities. *ACS Omega* **8(43),** 40140-40152 (2023).

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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