

## Product Data Sheet

Product Name: Triazavirin

Cat. No.: GC61348

### Chemical Properties

Cas. No. 928659-17-0

SMILES O=C1N([N-]C(SC)=N2)C2=NN=C1[N+](O-)=O.[H]O[H].[H]O[H].[Na+]

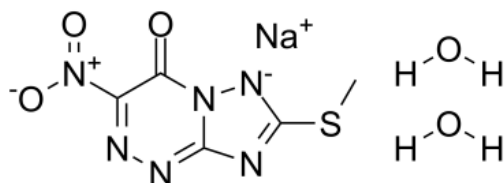
Formula C5H7N6NaO5S M.Wt 286.2

Solubility DMSO: 125 mg/mL (436.76 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



### Background

Triazavirin is a nucleoside analogue of nucleic acid and an antiviral agent. Triazavirin works by inhibiting the synthesis of viral RNA and DNA and replication of genomic fragments. Triazavirin is also an effective protective agent on the transmission stage of influenza[1].

The efficacy of Triazavirin against the tick-borne encephalitis virus is estimated in the sensitive cell culture. In a concentration of 128 mcg/mL Triazavirin is shown active in inhibition of the tick-borne encephalitis virus reproduction (strain Sofiin) by accumulation in the SKEV cell culture[2].

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

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The therapeutic efficacy Triazavirin against experimental Forest-Spring encephalitis on albino mice is studied. The results shows that in high doses (200-400 mg/kg) Triazavirin moderately protects the infected animals. A significant increase of the animal lifespan in the test groups (from 4.1 to 4.8 days) and a statistically valid decrease of the virus accumulation in the target organ are observed[3].

[1]. Kozhikhova KV, et al. Preparation of chitosan-coated liposomes as a novel carrier system for the antiviral drug Triazavirin. Pharm Dev Technol. 2018 Apr;23(4):334-342. [2]. Loginova Sla, et al. Investigation of Triazavirin antiviral activity against tick-borne encephalitis pathogen in cell culture. Antibiot Khimioter. 2014;59(1-2):3-5. [3]. Loginova SY, et al. Investigation of Therapeutic Efficacy of Triazavirin Against Experimental Forest-Spring Encephalitis on Albino Mice. Antibiot Khimioter. 2015;60(7-8):11-3.

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