

Product Data Sheet

Product Name: N4-Acetylcytidine triphosphate sodium

Cat. No.: GC36678

Chemical Properties

Cas. No. 2803886-33-9

SMILES O[C@@H]([C@H]([C@H](N1C(N=C(C=C1)NC(C)=O)=O)O2)O)[C@H]2COP([O-])(OP([O-])([O-])=O)([O-])=O.[4 Na+]

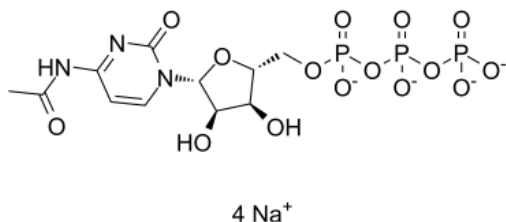
Formula $C_{11}H_{14}N_3Na_4O_{15}P_3$ M.Wt 613.12

Solubility Water: ≥ 250 mg/mL (407.75 mM) Storage Store at -80°C , protect from light, stored under argon.

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

N4-Acetylcytidine triphosphate sodium is an endogenous nucleoside metabolite from the degradation of tRNA, primes and activates NLRP3 inflammation by inducing HMGB1 expression[1]. NLRP3 Human Endogenous Metabolite

N4-Acetylcytidine (0.3? mM or 1.0? mM) upregulates NF- κ B and NLRP3 expression BV2 microglia,

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

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and this calls for HMGB1 expression and release[1].

[1]. Duan J, et al. N4-acetylcytidine is required for sustained NLRP3 inflammasome activation via HMGB1 pathway in microglia. Cell Signal. 2019 Jun;58:44-52.

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