
Product Data Sheet

Product Name: IMM-H007

Cat. No.: GC25521

Chemical Properties

Cas. No. 1221412-23-2

Formula C₂₂H₂₃N₅O₈

M.Wt 485.45

Solubility DMSO: 97 mg/mL (199.81 mM);Water: Insoluble;Ethanol: Insoluble
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**

IMM-H007, an adenosine derivative, is an activator of AMP-Activated Protein Kinase (AMPK). IMM-H007 is a potential drug for treating cardiac dysfunction. IMM-H007 negatively regulates endothelium inflammation through inactivating NF-κB and JNK/AP1 signaling. IMM-H007 inhibits ABCA1 (ATP binding cassette subfamily a member 1) degradation and facilitates its cell-surface localization in macrophages, thereby promotes cholesterol efflux.

IMM-H007 reduces isoprenaline-induced Smad2/3 phosphorylation downstream of TGFβ1 and cardiac fibrosis via an AMPKα2-independent pathway, but the inhibition of TGFβ1 expression is AMPKα2-dependent.[4]

[1] Weipeng Ge, et al. Eur J Pharmacol. 2019 Aug 15;857:172442. [2] Jinjin Yu, et al. Toxicol Appl Pharmacol. 2019 Oct 15;381:114732. [3] LinZhang Huang, et al. J Lipid Res. 2015 May;56(5):986-97.

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

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