

## Product Data Sheet

Product Name: Binodenoson

Cat. No.: GC64647

### Chemical Properties

Cas. No. 144348-08-3

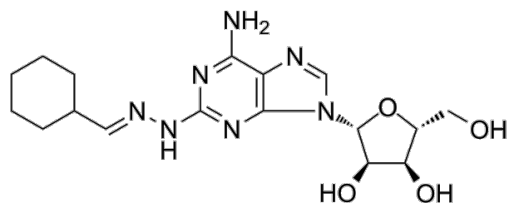
Formula C<sub>17</sub>H<sub>25</sub>N<sub>7</sub>O<sub>4</sub> M.Wt 391.42

Solubility DMSO : 125 mg/mL (319.35 mM; Need ultrasonic) 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

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

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Binodenoson (MRE-0470) is a potent and selective A<sub>2A</sub> adenosine receptor agonist (K<sub>D</sub>=270 nM). Binodenoson is being developed as a short-acting coronary vasodilator as an adjunct to radiotracers for use in myocardial stress imaging[1].

Binodenoson (MRE-0470) (30-300 nM) decreases oxidative activity of tumor necrosis factor- $\alpha$ -primed FMLP-stimulated polymorphonuclear leukocytes in human whole blood and acts synergistically with Rolipram[1].

Binodenoson (infused 0-0.9  $\mu$ g/kg/h; adult Wistar rat; rat bacterial meningitis model), with or without rolipram (0-0.01  $\mu$ g/kg/h), inhibits pleocytosis and reduces the lipopolysaccharide-induced increase in blood-brain barrier permeability (BBBP), indicative of decreased neutrophil-induced damage[1].

[1]. Sullivan GW, et al. Neutrophil A<sub>2A</sub> adenosine receptor inhibits inflammation in a rat model of meningitis: synergy with the type IV phosphodiesterase inhibitor, rolipram. J Infect Dis. 1999;180(5):1550-1560.

[2]. Glover DK, et al. Pharmacological stress thallium scintigraphy with 2-cyclohexylmethylidenehydrazinoadenosine (WRC-0470). A novel, short-acting adenosine A<sub>2A</sub> receptor agonist. Circulation. 1996;94(7):1726-1732.

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